

SUMMARY OF PRODUCT CHARACTERISTICS

1. NAME OF THE MEDICINAL PRODUCT

DILABRO 85 microgram/43 microgram inhalatiepoeder in harde capsules

2. QUALITATIVE AND QUANTITATIVE COMPOSITION

Each capsule contains 143 micrograms of indacaterol maleate equivalent to 110 micrograms of indacaterol and 63 micrograms of glycopyrronium bromide equivalent to 50 micrograms of glycopyrronium.

Each delivered dose (the dose that leaves the mouthpiece of the inhaler) contains 110 micrograms of indacaterol maleate equivalent to 85 micrograms of indacaterol and 54 micrograms of glycopyrronium bromide equivalent to 43 micrograms of glycopyrronium.

Excipient(s) with known effect

Each capsule contains 23.5 mg lactose (as monohydrate). For the full list of excipients, see section 6.1.

3. PHARMACEUTICAL FORM

Inhalation powder, hard capsule (inhalation powder).

Yellow transparent capsules, containing white or almost white powder.

4. CLINICAL PARTICULARS

4.1 Therapeutic indications

DILABRO is indicated as a maintenance bronchodilator treatment to relieve symptoms in adult patients with chronic obstructive pulmonary disease (COPD).

4.2 Posology and method of administration

Posology

The recommended dose is the inhalation of the content of one capsule once daily using the DILABRO inhaler.

DILABRO is recommended to be administered at the same time of the day each day. If a dose is missed, it should be taken as soon as possible on the same day. Patients should be instructed not to take more than one dose in a day.

Special populations

Elderly population

DILABRO can be used at the recommended dose in elderly patients (75 years of age and older).

Renal impairment

DILABRO can be used at the recommended dose in patients with mild to moderate renal impairment. In patients with severe renal impairment or end-stage renal disease requiring dialysis it should be used only if the expected benefit outweighs the potential risk (see sections 4.4 and 5.2).

Hepatic impairment

DILABRO can be used at the recommended dose in patients with mild and moderate hepatic impairment. There are no data available for the use of DILABRO in patients with severe hepatic impairment, therefore caution should be observed in these patients (see section 5.2).

Paediatric population

There is no relevant use of DILABRO in the paediatric population (under 18 years) in the indication COPD. The safety and efficacy of Indacaterol/Glycopyrronium in children have not been established. No data are available.

Method of administration

For inhalation use only. The capsules must not be swallowed.

The capsules must be administered only using the DILABRO inhaler (see section 6.6).

Patients should be instructed on how to administer the medicinal product correctly. Patients who do not experience improvement in breathing should be asked if they are swallowing the medicinal product rather than inhaling it.

For instructions on use of the medicinal product before administration, see section 6.6.

4.3 Contraindications

Hypersensitivity to the active substances or to any of the excipients listed in section 6.1.

4.4 Special warnings and precautions for use

DILABRO should not be administered concomitantly with medicinal products containing other long-acting beta-adrenergic agonists or long-acting muscarinic antagonists, the pharmacotherapeutic groups to which the components of DILABRO belong (see section 4.5).

Asthma

DILABRO should not be used for the treatment of asthma due to the absence of data in this indication.

Long-acting beta₂-adrenergic agonists may increase the risk of asthma-related serious adverse events, including asthma-related deaths, when used for the treatment of asthma.

Not for acute use

DILABRO is not indicated for the treatment of acute episodes of bronchospasm.

Hypersensitivity

Immediate hypersensitivity reactions have been reported after administration of indacaterol or glycopyrronium, which are the active substances of DILABRO. If signs suggesting allergic reactions occur, in particular, angioedema (difficulties in breathing or swallowing, swelling of the tongue, lips and face) urticaria or skin rash, treatment should be discontinued immediately and alternative therapy instituted.

Paradoxical bronchospasm

Administration of DILABRO may result in paradoxical bronchospasm which can be

life-threatening. If this occurs, treatment should be discontinued immediately and alternative therapy instituted.

Anticholinergic effects related to glycopyrronium

Narrow-angle glaucoma

No data are available in patients with narrow-angle glaucoma, therefore DILABRO should be used with caution in these patients.

Patients should be informed about the signs and symptoms of acute narrow-angle glaucoma and should be informed to stop using DILABRO should any of these signs or symptoms develop.

Urinary retention

No data are available in patients with urinary retention, therefore DILABRO should be used with caution in these patients.

Patients with severe renal impairment

A moderate mean increase in total system exposure (AUC_{last}) to glycopyrronium of up to 1.4-fold was seen in subjects with mild and moderate renal impairment and up to 2.2-fold in subjects with severe renal impairment and end-stage renal disease. In patients with severe renal impairment (estimated glomerular filtration rate below 30 ml/min/1.73 m²), including those with end-stage renal disease requiring dialysis, DILABRO should be used only if the expected benefit outweighs the potential risk (see section 5.2). These patients should be monitored closely for potential adverse reactions.

Cardiovascular effects

DILABRO should be used with caution in patients with cardiovascular disorders (coronary artery disease, acute myocardial infarction, cardiac arrhythmias, hypertension).

Beta₂-adrenergic agonists may produce a clinically significant cardiovascular effect in some patients as measured by increases in pulse rate, blood pressure, and/or symptoms. In case such effects occur with this medicinal product, treatment may need to be discontinued. In addition, beta-adrenergic agonists have been reported to produce electrocardiographic (ECG) changes, such as flattening of the T wave, prolongation of QT interval and ST segment depression, although the clinical significance of these observations is unknown. Therefore, long-acting beta₂-adrenergic agonists (LABA) or LABA-containing combination products such as Indacaterol/Glycopyrronium should be used with caution in patients with known or suspected prolongation of the QT interval or treated with medicinal products affecting the QT interval.

Patients with unstable ischaemic heart disease, left ventricular failure, history of myocardial infarction, arrhythmia (excluding chronic stable atrial fibrillation), a history of long QT syndrome or whose QTc (Fridericia method) was prolonged (>450 ms) were excluded from the clinical trials, and therefore there is no experience in these patient groups. DILABRO should be used with caution in these patient groups.

Hypokalaemia

Beta₂-adrenergic agonists may produce significant hypokalaemia in some patients, which has the potential to produce adverse cardiovascular effects. The decrease in serum potassium is usually transient, not requiring supplementation. In patients with severe COPD, hypokalaemia may be potentiated by hypoxia and concomitant treatment, which may increase the susceptibility to cardiac arrhythmias (see section 4.5). Clinically relevant effects of hypokalaemia have not been observed in clinical studies of Indacaterol/Glycopyrronium at the recommended therapeutic dose (see section 5.1).

Hyperglycaemia

Inhalation of high doses of beta₂-adrenergic agonists may produce increases in plasma glucose. Upon

initiation of treatment with DILABRO plasma glucose should be monitored more closely in diabetic patients.

During long-term clinical studies, more patients on Indacaterol/Glycopyrronium experienced clinically notable changes in blood glucose (4.9%) at the recommended dose than on placebo (2.7%). Indacaterol/Glycopyrronium has not been investigated in patients for whom diabetes mellitus is not well controlled, therefore caution and appropriate monitoring are advised in such patients.

General disorders

DILABRO should be used with caution in patients with convulsive disorders or thyrotoxicosis, and in patients who are unusually responsive to beta₂-adrenergic agonists.

Excipients

This medicinal product contains lactose. Patients with rare hereditary problems of galactose intolerance, total lactase deficiency or glucose-galactose malabsorption should not take this medicinal product.

4.5 Interaction with other medicinal products and other forms of interaction

Concomitant administration of orally inhaled indacaterol and glycopyrronium, under steady-state conditions of both active substances, did not affect the pharmacokinetics of either active substance.

No specific interaction studies were conducted with Indacaterol/Glycopyrronium. Information on the potential for interactions is based on the potential for each of its two active substances.

Concomitant use not recommended

Beta-adrenergic blockers

Beta-adrenergic blockers may weaken or antagonise the effect of beta₂-adrenergic agonists. Therefore DILABRO should not be given together with beta-adrenergic blockers (including eye drops) unless there are compelling reasons for their use. Where required, cardioselective beta-adrenergic blockers should be preferred, although they should be administered with caution.

Anticholinergics

The co-administration of DILABRO with other anticholinergic-containing medicinal products has not been studied and is therefore not recommended (see section 4.4).

Sympathomimetics

Concomitant administration of other sympathomimetics (alone or as part of combination therapy) may potentiate the adverse events of indacaterol (see section 4.4).

Caution required with concomitant use

Hypokalaemic treatment

Concomitant hypokalaemic treatment with methylxanthine derivatives, steroids, or non-potassium-sparing diuretics may potentiate the possible hypokalaemic effect of beta₂-adrenergic agonists, therefore use with caution (see section 4.4).

To be taken into account with concomitant use

Metabolic and transporter based interactions

Inhibition of the key contributors of indacaterol clearance, CYP3A4 and P-glycoprotein (P-gp), raises the systemic exposure of indacaterol up to two-fold. The magnitude of exposure increases due to interactions does not raise any safety concerns given the safety experience of treatment with indacaterol in clinical studies of up to one year at doses up to twice the maximum recommended indacaterol dose.

Cimetidine or other inhibitors of organic cation transport

In a clinical study in healthy volunteers, cimetidine, an inhibitor of organic cation transport which is thought to contribute to the renal excretion of glycopyrronium, increased total exposure (AUC) to glycopyrronium by 22% and decreased renal clearance by 23%. Based on the magnitude of these changes, no clinically relevant drug interaction is expected when glycopyrronium is co-administered with cimetidine or other inhibitors of the organic cation transport.

4.6 Fertility, pregnancy and lactation

Pregnancy

There are no data from the use of Indacaterol/Glycopyrronium in pregnant women available. Animal studies do not indicate direct or indirect harmful effects with respect to reproductive toxicity at clinically relevant exposures (see section 5.3).

Indacaterol may inhibit labour due to a relaxant effect on uterine smooth muscle. Therefore, DILABRO should only be used during pregnancy if the expected benefit to the patient justifies the potential risk to the foetus.

Breast-feeding

It is not known whether indacaterol, glycopyrronium and their metabolites are excreted in human milk. Available pharmacokinetic/toxicological data have shown excretion of indacaterol, glycopyrronium and their metabolites in the milk of lactating rats. The use of DILABRO by breast-feeding women should only be considered if the expected benefit to the woman is greater than any possible risk to the infant (see section 5.3).

Fertility

Reproduction studies and other data in animals do not indicate a concern regarding fertility in either males or females.

4.7 Effects on ability to drive and use machines

This medicinal product has no or negligible influence on the ability to drive and use machines. However, the occurrence of dizziness may influence the ability to drive and use machines (see section 4.8).

4.8 Undesirable effects

The presentation of the safety profile is based on the experience with Indacaterol/Glycopyrronium and the individual active substances.

Summary of the safety profile

The safety experience with Indacaterol/Glycopyrronium was comprised of exposure of up to 15 months at the recommended therapeutic dose.

Indacaterol/Glycopyrronium showed similar adverse reactions to the individual components. As it contains indacaterol and glycopyrronium, the type and severity of adverse reactions associated with each of these components may be expected in the combination.

The safety profile is characterised by typical anticholinergic and beta-adrenergic symptoms related to the individual components of the combination. Other most common adverse reactions related to the medicinal product (at least 3% of patients for Indacaterol/Glycopyrronium and also greater than placebo) were cough, nasopharyngitis and headache.

Tabulated summary of adverse reactions

Adverse reactions detected during clinical trials and from post-marketing sources are listed by MedDRA

system organ class (Table 1). Within each system organ class, the adverse reactions are ranked by frequency, with the most frequent reactions first. Within each frequency grouping, adverse reactions are presented in order of decreasing seriousness. In addition, the corresponding frequency category for each adverse reaction is based on the following convention: very common ($\geq 1/10$); common ($\geq 1/100$ to $< 1/10$); uncommon ($\geq 1/1,000$ to $< 1/100$); rare ($\geq 1/10,000$, $< 1/1,000$); very rare ($< 1/10,000$); not known (cannot be estimated from the available data).

Table 1 Adverse reactions

Adverse reactions	Frequency category
Infections and infestations	
Upper respiratory tract infection	Very common
Nasopharyngitis	Common
Urinary tract infection	Common
Sinusitis	Common
Rhinitis	Common
Immune system disorders	
Hypersensitivity	Common
Angioedema ²	Uncommon
Metabolism and nutrition disorders	
Hyperglycaemia and diabetes mellitus	Common
Psychiatric disorders	
Insomnia	Uncommon
Nervous system disorders	
Dizziness	Common
Headache	Common
Paraesthesia	Rare
Eye disorders	
Glaucoma ¹	Uncommon
Cardiac disorders	
Ischaemic heart disease	Uncommon
Atrial fibrillation	Uncommon
Tachycardia	Uncommon
Palpitations	Uncommon
Respiratory, thoracic and mediastinal disorders	
Cough	Common
Oropharyngeal pain including throat irritation	Common
Paradoxical bronchospasm	Uncommon
Dysphonia ²	Uncommon
Epistaxis	Uncommon

Gastrointestinal disorders	
Dyspepsia	Common
Dental caries	Common
Gastroenteritis	Uncommon
Dry mouth	Uncommon
Skin and subcutaneous tissue disorders	
Pruritus/rash	Uncommon
Musculoskeletal and connective tissue disorders	
Musculoskeletal pain	Uncommon
Muscle spasm	Uncommon
Myalgia	Uncommon
Pain in extremity	Uncommon
Renal and urinary disorders	
Bladder obstruction and urinary retention	Common
General disorders and administration site conditions	
Pyrexia ¹	Common
Chest pain	Common
Oedema peripheral	Uncommon
Fatigue	Uncommon

¹ Adverse reaction observed with Indacaterol/Glycopyrronium, but not with the individual components.

² Reports received from post-marketing experience; frequencies calculated, however, on the basis of clinical trial data.

Description of selected adverse reactions

Cough was common, but usually of mild intensity. Reporting of suspected adverse reactions

Reporting suspected adverse reactions after authorisation of the medicinal product is important. It allows continued monitoring of the benefit/risk balance of the medicinal product. Healthcare professionals are asked to report any suspected adverse reactions via the national reporting system listed in [Appendix V](#).

4.9 Overdose

There is no information on clinically relevant overdosing with Indacaterol/Glycopyrronium.

An overdose could lead to exaggerated effects typical of beta₂-adrenergic stimulants, i.e. tachycardia, tremor, palpitations, headache, nausea, vomiting, drowsiness, ventricular arrhythmias, metabolic acidosis, hypokalaemia and hyperglycaemia or could induce anticholinergic effects such as increased intraocular pressure (causing pain, vision disturbances or reddening of the eye), obstipation or difficulties in voiding. Supportive and symptomatic treatment is indicated. In serious cases, patients should be hospitalised. Use of cardioselective beta blockers may be considered for treating beta₂-adrenergic effects, but only under the supervision of a physician and with extreme caution since the use of beta-adrenergic blockers may provoke bronchospasm.

5. PHARMACOLOGICAL PROPERTIES

5.1 Pharmacodynamic properties

Pharmacotherapeutic group: Drugs for obstructive airway diseases, adrenergics in combination with anticholinergics, ATC code: R03AL04

Mechanism of action

DILABRO

When indacaterol and glycopyrronium are administered together in DILABRO, they provide additive

efficacy due to their different mode of action targeting different receptors and pathways to achieve smooth muscle relaxation. Due to the differential density of beta₂-adrenoceptors and M₃-receptors in central versus peripheral airways, beta₂-agonists should be more effective in relaxing peripheral airways, whilst an anticholinergic compound may be more effective in central airways. Thus for bronchodilation in both peripheral and central airways of the human lung a combination of a beta₂-adrenergic agonist and a muscarinic antagonist may be beneficial.

Indacaterol

Indacaterol is a long-acting beta₂-adrenergic agonist for once-daily administration. The pharmacological effects of beta₂-adrenoceptor agonists, including indacaterol, are at least in part attributable to stimulation of intracellular adenylyl cyclase, the enzyme that catalyses the conversion of adenosine triphosphate (ATP) to cyclic-3', 5'-adenosine monophosphate (cyclic AMP). Increased cyclic AMP levels cause relaxation of bronchial smooth muscle. *In vitro* studies have shown that indacaterol has multi-fold greater agonist activity at beta₂-receptors compared to beta₁ and beta₃-receptors.

When inhaled, indacaterol acts locally in the lung as a bronchodilator. Indacaterol is a partial agonist at the human beta₂-adrenergic receptor with nanomolar potency.

Although beta₂-adrenergic receptors are the predominant adrenergic receptors in bronchial smooth muscle and beta₁-adrenergic receptors are the predominant receptors in the human heart, there are also beta₂-adrenergic receptors in the human heart comprising 10% to 50% of the total adrenergic receptors. Their presence in the heart raises the possibility that even highly selective beta₂-adrenergic agonists may have cardiac effects.

Glycopyrronium

Glycopyrronium is an inhaled long-acting muscarinic receptor antagonist (anticholinergic) for once-daily maintenance bronchodilator treatment of COPD. Parasympathetic nerves are the major bronchoconstrictive neural pathway in airways, and cholinergic tone is the key reversible component of airflow obstruction in COPD. Glycopyrronium works by blocking the bronchoconstrictor action of acetylcholine on airway smooth muscle cells, thereby dilating the airways.

Glycopyrronium bromide is a high affinity muscarinic receptor antagonist. A greater than 4-fold selectivity for the human M₃ receptors over the human M₂ receptor has been demonstrated using radioligand binding studies.

Pharmacodynamic effects

The combination of indacaterol and glycopyrronium in Indacaterol/Glycopyrronium showed a rapid onset of action within 5 minutes after dosing. The effect remains constant over the whole 24-h dosing interval.

The mean bronchodilator effect derived from serial FEV₁ measurements over 24 h was 320 ml after 26 weeks of treatment. The effect was significantly greater for Indacaterol/Glycopyrronium, when compared to indacaterol, glycopyrronium or tiotropium alone (difference 110 ml, for each comparison).

There was no evidence for tachyphylaxis to the effect of Indacaterol/Glycopyrronium over time when compared to placebo or its monotherapy components.

Effects on heart rate

Heart rate effects in healthy volunteers were investigated after a single dose of 4 times the recommended therapeutic dose of Indacaterol/Glycopyrronium administered in four dose steps each separated by one hour and compared to the effects of placebo, indacaterol, glycopyrronium and salmeterol.

The largest time-matched heart rate increase compared to placebo was +5.69 bpm (90% CI [2.71, 8.66]), the largest decrease was -2.51 bpm (90% CI [-5.48, 0.47]). Overall the effect on heart rate over time did not show a consistent pharmacodynamic effect of Indacaterol/Glycopyrronium

Heart rate in COPD patients at supratherapeutic dose levels was investigated. There were no relevant effects of Indacaterol/Glycopyrronium on mean heart rate over 24 h and heart rate assessed after 30 minutes, 4 h and 24 h.

QT interval

A thorough QT (TQT) study in healthy volunteers with high doses of inhaled indacaterol (up to twice the maximum recommended therapeutic dose) did not demonstrate a clinically relevant effect on the QT interval. Similarly, for glycopyrronium no QT prolongation was observed in a TQT study after an inhaled dose of 8 times the recommended therapeutic dose.

The effects of Indacaterol/Glycopyrronium on QTc interval were investigated in healthy volunteers after inhalation of Indacaterol/Glycopyrronium up to 4 times the recommended therapeutic dose in four dose steps each separated by one hour. The largest time-matched difference versus placebo was 4.62 ms (90% CI 0.40, 8.85 ms), the largest time-matched decrease was -2.71 ms (90% CI -6.97, 1.54 ms), indicating that Indacaterol/Glycopyrronium had no relevant impact on the QT interval, as was expected by the properties of its components.

In COPD patients, supratherapeutic doses between 116 micrograms/86 micrograms and 464 micrograms/86 micrograms of Indacaterol/Glycopyrronium showed a higher proportion of patients with QTcF increases vs. baseline between 30 ms and 60 ms (ranging from 16.0% to 21.6% vs. 1.9% for placebo), but there were no QTcF increases >60 ms from baseline. The highest dose level of 464 micrograms/86 micrograms Indacaterol/Glycopyrronium also showed a higher proportion of absolute QTcF values >450 ms (12.2% vs. 5.7% for placebo).

Serum potassium and blood glucose

In healthy volunteers, after the administration of 4 times the recommended therapeutic dose of Indacaterol/Glycopyrronium the effect on serum potassium was very small (maximal difference -0.14 mmol/l when compared to placebo). The maximal effect on blood glucose was 0.67 mmol/l.

Clinical efficacy and safety

The Indacaterol/Glycopyrronium clinical Phase III development programme included six studies in which over 8,000 patients were enrolled: 1) a 26-week placebo- and active-controlled (indacaterol once daily, glycopyrronium once daily, open-label tiotropium once daily) study; 2) a 26-week active-controlled (fluticasone/salmeterol twice daily) study; 3) a 64-week active-controlled (glycopyrronium once daily, open-label tiotropium once daily) study; 4) a 52-week placebo-controlled study; 5) a 3-week placebo- and active-controlled (tiotropium once daily) exercise tolerance study; and 6) a 52-week active- controlled (fluticasone/salmeterol twice daily) study.

In four of these studies patients were enrolled who had a clinical diagnosis of moderate to severe COPD. In the 64-week study patients were enrolled who had severe to very severe COPD with a history of ≥ 1 moderate or severe COPD exacerbation in the previous year. In the 52-week active- controlled study, patients were enrolled who had moderate to very severe COPD with a history of ≥ 1 moderate or severe COPD exacerbation in the previous year.

Effects on lung function

Indacaterol/Glycopyrronium showed clinically meaningful improvements in lung function (as measured by the forced expiratory volume in one second, FEV₁) in a number of clinical studies. In Phase III studies, bronchodilator effects were seen within 5 minutes after the first dose and were maintained over the 24-hour dosing interval from the first dose. There was no attenuation of the bronchodilator effect over time.

The magnitude of the effect was dependent on the degree of reversibility of airflow limitation at baseline (tested by administration of a short-acting muscarinic antagonist bronchodilator and a short-acting beta₂-agonist bronchodilator): Patients with the lowest degree of reversibility at baseline (<5%) generally exhibited a lower bronchodilator response than patients with a higher degree of reversibility at baseline ($\geq 5\%$). At 26 weeks (primary endpoint), Indacaterol/Glycopyrronium increased trough FEV₁ by 80 ml in patients Indacaterol/Glycopyrronium n=82; placebo n=42) with the lowest

degree of reversibility (<5%) (p=0.053) and by 220 ml in those patients (Indacaterol/Glycopyrronium >n=392, placebo n=190) with a higher degree of reversibility at baseline (≥5%) compared to placebo (p<0.001).

Trough and peak FEV₁:

Indacaterol/Glycopyrronium increased post-dose trough FEV₁ by 200 ml compared to placebo at the 26-week primary endpoint (p<0.001) and showed statistically significant increases compared to each monotherapy component treatment arm (indacaterol and glycopyrronium) as well as the tiotropium treatment arm, as shown in the below table.

Post-dose trough FEV₁ (least squares mean) at day 1 and week 26 (primary endpoint)

Treatment difference	Day 1	Week 26
Indacaterol/Glycopyrronium – placebo	190 ml (p<0.001)	200 ml (p<0.001)
Indacaterol/Glycopyrronium indacaterol	80 ml (p<0.001)	70 ml (p<0.001)
Indacaterol/Glycopyrronium – glycopyrronium	80 ml (p<0.001)	90 ml (p<0.001)
Indacaterol/Glycopyrronium – tiotropium	80 ml (p<0.001)	80 ml (p<0.001)

The mean pre-dose FEV₁ (average of the values taken at -45 and -15 minutes prior to the morning dose of study medication) was statistically significant in favour of Indacaterol/Glycopyrronium at week 26 compared to fluticasone/salmeterol (least squares [LS] mean treatment difference 100 ml, p<0.001), at week 52 compared to placebo (LS mean treatment difference 189 ml, p<0.001) and at all visits up to week 64 compared to glycopyrronium (LS mean treatment difference 70-80 ml, p<0.001) and tiotropium (LS mean treatment difference 60-80 ml, p<0.001). In the 52-week active-controlled study, the mean pre-dose FEV₁ was statistically significant in favour of Indacaterol/Glycopyrronium at all visits up to week 52 compared to fluticasone/salmeterol (LS mean treatment difference 62-86 ml, p<0.001). At week 26, Indacaterol/Glycopyrronium produced statistically significant improvement in peak FEV₁ compared to placebo in the first 4 hours post dose (LS mean treatment difference 330 ml) (p<0.001).

FEV₁ AUC:

Indacaterol/Glycopyrronium increased post-dose FEV₁ AUC₀₋₁₂ (primary endpoint) by 140 ml at 26 weeks (p<0.001) compared to fluticasone/salmeterol.

Symptomatic outcomes Breathlessness:

Indacaterol/Glycopyrronium statistically significantly reduced breathlessness as evaluated by the Transitional Dyspnoea Index (TDI); it demonstrated a statistically significant improvement in the TDI focal score at week 26 compared to placebo (LS mean treatment difference 1.09, p<0.001), tiotropium (LS mean treatment difference 0.51, p=0.007) and fluticasone/salmeterol (LS mean treatment difference 0.76, p=0.003). Improvements versus indacaterol and glycopyrronium were 0.26 and 0.21, respectively.

A statistically significantly higher percentage of patients receiving Indacaterol/Glycopyrronium responded with a 1 point or greater improvement in the TDI focal score at week 26 compared to placebo (68.1% and 57.5% respectively, p=0.004). A higher proportion of patients demonstrated clinically meaningful response at week 26 on Indacaterol/Glycopyrronium as compared to tiotropium (68.1% Indacaterol/Glycopyrronium versus 59.2% tiotropium, p=0.016) and fluticasone/salmeterol (65.1% Indacaterol/Glycopyrronium versus 55.5% fluticasone/salmeterol, p=0.088).

Health-related quality of life:

Indacaterol/Glycopyrronium has also shown a statistically significant effect on health-related quality of life measured using the St. George's Respiratory Questionnaire (SGRQ) as indicated by a reduction in SGRQ total score at 26 weeks compared to placebo (LS mean treatment difference -3.01, p=0.002) and tiotropium (LS mean treatment difference -2.13, p=0.009) and reductions versus indacaterol and glycopyrronium were -1.09 and -1.18, respectively. At 64 weeks, the reduction compared to tiotropium was statistically significant (LS mean treatment difference -2.69, p<0.001). At 52 weeks, the reduction compared to fluticasone/salmeterol was statistically significant (LS mean treatment difference -1.3, p=0.003).

A higher percentage of patients receiving Indacaterol/Glycopyrronium responded with a clinically meaningful improvement in SGRQ score (defined as a decrease of at least 4 units from baseline) at week 26 compared to placebo (63.7% and 56.6% respectively, $p=0.088$) and tiotropium (63.7% Indacaterol/Glycopyrronium vs. 56.4% tiotropium, $p=0.047$), at week 64 compared to glycopyrronium and tiotropium (57.3% Indacaterol/Glycopyrronium versus 51.8% glycopyrronium, $p=0.055$; versus 50.8% tiotropium, $p=0.051$, respectively), and at week 52 compared to fluticasone/salmeterol (49.2% Indacaterol/Glycopyrronium vs. 43.7% fluticasone/salmeterol, odds ratio: 1.30, $p<0.001$).

Daily activities

Indacaterol/Glycopyrronium demonstrated a statistically superior improvement versus tiotropium in the percentage of “days able to perform usual daily activities” over 26 weeks (LS mean treatment difference 8.45%, $p<0.001$). At week 64, Indacaterol/Glycopyrronium showed numerical improvement over glycopyrronium (LS mean treatment difference 1.95%; $p=0.175$) and statistical improvement over tiotropium (LS mean treatment difference 4.96%; $p=0.001$).

COPD exacerbations

In a 64-week study comparing Indacaterol/Glycopyrronium ($n=729$), glycopyrronium ($n=739$) and tiotropium ($n=737$), Indacaterol/Glycopyrronium reduced the annualised rate of moderate or severe COPD exacerbations by 12% compared to glycopyrronium ($p=0.038$) and by 10% compared to tiotropium ($p=0.096$). The number of moderate or severe COPD exacerbations/patient-years was 0.94 for Indacaterol/Glycopyrronium

(812 events), 1.07 for glycopyrronium (900 events) and 1.06 for tiotropium (898 events). Indacaterol/Glycopyrronium also statistically significantly reduced the annualised rate of all COPD exacerbations (mild, moderate or severe) by 15% as compared to glycopyrronium ($p=0.001$) and 14% as compared to tiotropium ($p=0.002$). The number of all COPD exacerbations/patient-years was 3.34 for Indacaterol/Glycopyrronium (2,893 events), 3.92 for glycopyrronium (3,294 events) and 3.89 for tiotropium (3,301 events).

In the 52-week study comparing Indacaterol/Glycopyrronium ($n=1,675$) and fluticasone/salmeterol ($n=1,679$), Indacaterol/Glycopyrronium met the primary study objective of non-inferiority in rate of all COPD exacerbations (mild, moderate or severe) compared to fluticasone/salmeterol. The number of all COPD exacerbations/patient-years was 3.59 for Indacaterol/Glycopyrronium (4,531 events) and 4.03 for fluticasone/salmeterol (4,969 events). Indacaterol/Glycopyrronium further showed superiority in reducing the annualised rate of all exacerbations by 11% versus fluticasone/salmeterol ($p=0.003$).

Compared to fluticasone/salmeterol, Indacaterol/Glycopyrronium reduced the annualised rate of both moderate or severe exacerbations by 17% ($p<0.001$), and of severe exacerbations (requiring hospitalisation) by 13% (not statistically significant, $p=0.231$). The number of moderate or severe COPD exacerbations/patient-years was 0.98 for Indacaterol/Glycopyrronium (1,265 events) and 1.19 for fluticasone/salmeterol (1,452 events). Indacaterol/Glycopyrronium prolonged time to first moderate or severe exacerbation with a 22% reduction in risk of an exacerbation ($p<0.001$) and prolonged time to first severe exacerbation with a 19% reduction in risk of an exacerbation ($p=0.046$).

The incidence of pneumonia was 3.2% in the Indacaterol/Glycopyrronium arm compared to 4.8% in the fluticasone/salmeterol arm ($p=0.017$). Time to first pneumonia was prolonged with Indacaterol/Glycopyrronium compared to fluticasone/salmeterol ($p=0.013$).

In another study comparing Indacaterol/Glycopyrronium ($n=258$) and fluticasone/salmeterol ($n=264$), for 26 weeks, the number of moderate or severe COPD exacerbations/patient-years was 0.15 versus 0.18 (18 events versus 22 events), respectively ($p=0.512$), and the number of all COPD exacerbations/patients-years (mild, moderate or severe) was 0.72 versus 0.94 (86 events versus 113 events), respectively ($p=0.098$).

Use of rescue medication

Over 26 weeks, Indacaterol/Glycopyrronium statistically significantly reduced the use of rescue

medication (salbutamol) by 0.96 puffs per day ($p<0.001$) compared to placebo, 0.54 puffs per day ($p<0.001$) compared to tiotropium and 0.39 puffs per day ($p=0.019$) compared to fluticasone/salmeterol. Over 64 weeks, this reduction was 0.76 puffs per day ($p<0.001$) compared to tiotropium. Over 52 weeks, Indacaterol/Glycopyrronium reduced the use of rescue medication by 0.25 puffs per day compared to fluticasone/salmeterol ($p<0.001$).

Exercise tolerance

Indacaterol/Glycopyrronium, dosed in the morning, reduced dynamic hyperinflation and improved the length of time exercise could be maintained from the first dose onwards. On the first day of treatment, inspiratory capacity under exercise was significantly improved (LS mean treatment difference 250 ml, $p<0.001$) compared to placebo. After three weeks of treatment, the improvement in inspiratory capacity with Indacaterol/Glycopyrronium was greater (LS mean treatment difference 320 ml, $p<0.001$) and exercise endurance time increased (LS mean treatment difference 59.5 seconds, $p=0.006$) compared to placebo.

Paediatric population

The European Medicines Agency has waived the obligation to submit the results of studies with Indacaterol/Glycopyrronium in all subsets of the paediatric population in chronic obstructive pulmonary disease (COPD) (see section 4.2 for information on paediatric use).

5.2 Pharmacokinetic properties

Absorption

Indacaterol/Glycopyrronium

Following inhalation of Indacaterol/Glycopyrronium, the median time to reach peak plasma concentrations of indacaterol and glycopyrronium was approximately 15 minutes and 5 minutes, respectively.

Based on the *in vitro* performance data, the dose of indacaterol delivered to the lung is expected to be similar for Indacaterol/Glycopyrronium and indacaterol monotherapy product. Steady-state exposure to indacaterol after Indacaterol/Glycopyrronium inhalation was either similar or slightly lower than systemic exposure after indacaterol monotherapy product inhalation.

Following inhalation of Indacaterol/Glycopyrronium, the absolute bioavailability of indacaterol has been estimated to range from 61 to 85% of the delivered dose, and that of glycopyrronium was about 47% of the delivered dose.

Steady-state exposure to glycopyrronium after Indacaterol/Glycopyrronium inhalation was similar to systemic exposure after glycopyrronium monotherapy product inhalation.

Indacaterol

Steady state concentrations of indacaterol were achieved within 12 to 15 days following once-daily administration. The mean accumulation ratio of indacaterol, i.e. AUC over the 24-h dosing interval on day 14 or day 15 compared to day 1, was in the range of 2.9 to 3.8 for once-daily inhaled doses between 60 micrograms and 480 micrograms (delivered dose).

Glycopyrronium

In patients with COPD, pharmacokinetic steady-state of glycopyrronium was reached within one week of the start of treatment. The steady-state mean peak and trough plasma concentrations of glycopyrronium at the recommended once-daily dosing regimen were 166 picograms/ml and 8 picograms/ml, respectively. Steady-state exposure to glycopyrronium (AUC over the 24-hour dosing interval) was about 1.4- to 1.7-fold higher than after the first dose.

Distribution

Indacaterol

After intravenous infusion the volume of distribution of indacaterol during the terminal elimination phase was 2557 litres indicating an extensive distribution. The *in vitro* human serum and plasma protein binding was about 95%.

Glycopyrronium

After intravenous dosing, the steady-state volume of distribution of glycopyrronium was 83 litres and the volume of distribution in the terminal phase was 376 litres. The apparent volume of distribution in the terminal phase following inhalation was almost 20-fold larger, which reflects the much slower elimination after inhalation. The *in vitro* human plasma protein binding of glycopyrronium was 38% to 41% at concentrations of 1 to 10 nanograms/ml.

Biotransformation

Indacaterol

After oral administration of radiolabelled indacaterol in a human ADME (absorption, distribution, metabolism, excretion) study, unchanged indacaterol was the main component in serum, accounting for about one third of total drug-related AUC over 24 hours. A hydroxylated derivative was the most prominent metabolite in serum. Phenolic O-glucuronides of indacaterol and hydroxylated indacaterol were further prominent metabolites. A diastereomer of the hydroxylated derivative, a N-glucuronide of indacaterol, and C- and N-dealkylated products were further metabolites identified.

In vitro the UGT1A1 isoform is a major contributor to the metabolic clearance of indacaterol. However, as shown in a clinical study in populations with different UGT1A1 genotypes, systemic exposure to indacaterol is not significantly affected by the UGT1A1-genotype.

Oxidative metabolites were found in incubations with recombinant CYP1A1, CYP2D6, and CYP3A4. CYP3A4 is concluded to be the predominant isoenzyme responsible for hydroxylation of indacaterol. *In vitro* investigations further indicated that indacaterol is a low affinity substrate for the efflux pump P-gp.

Glycopyrronium

In vitro metabolism studies showed consistent metabolic pathways for glycopyrronium bromide between animals and humans. Hydroxylation resulting in a variety of mono- and bis-hydroxylated metabolites and direct hydrolysis resulting in the formation of a carboxylic acid derivative (M9) were seen. *In vivo*, M9 is formed from the swallowed dose fraction of inhaled glycopyrronium bromide. Glucuronide and/or sulfate conjugates of glycopyrronium were found in urine of humans after repeated inhalation, accounting for about 3% of the delivered dose.

Multiple CYP isoenzymes contribute to the oxidative biotransformation of glycopyrronium. Inhibition or induction of the metabolism of glycopyrronium is unlikely to result in a relevant change of systemic exposure to the active substance.

In vitro inhibition studies demonstrated that glycopyrronium bromide has no relevant capacity to inhibit CYP1A2, CYP2A6, CYP2C8, CYP2C9, CYP2C19, CYP2D6, CYP2E1 or CYP3A4/5, the efflux transporters MDR1, MRP2 or MXR, and the uptake transporters OCT1 or OCT2. *In vitro* enzyme induction studies did not indicate a clinically relevant induction by glycopyrronium bromide for any of the cytochrome P450 isoenzymes tested or for UGT1A1 and the transporters MDR1 and MRP2.

Elimination

Indacaterol

In clinical studies, the amount of indacaterol excreted unchanged via urine was generally lower than 2.5% of the delivered dose. Renal clearance of indacaterol was, on average, between 0.46 and 1.2 litres/hour. When compared with the serum clearance of indacaterol of 23.3 litres/hour, it is evident

that renal clearance plays a minor role (about 2 to 5% of systemic clearance) in the elimination of systemically available indacaterol.

In a human ADME study, indacaterol given orally was excreted into human faeces primarily as unchanged parent substance (54% of the dose) and, to a lesser extent, hydroxylated indacaterol metabolites (23% of the dose).

Indacaterol serum concentrations declined in a multi-phasic manner with an average terminal half-life ranging from 45.5 to 126 hours. The effective half-life, calculated from the accumulation of indacaterol after repeated dosing ranged from 40 to 52 hours which is consistent with the observed time-to-steady state of approximately 12-15 days.

Glycopyrronium

After intravenous administration of [³H]-labelled glycopyrronium bromide, the mean urinary excretion of radioactivity in 48 hours amounted to 85% of the dose. A further 5% of the dose was found in the bile.

Renal elimination of parent drug accounts for about 60 to 70% of total clearance of systemically available glycopyrronium whereas non-renal clearance accounts for about 30 to 40%. Biliary clearance contributes to the non-renal clearance, but the majority of non-renal clearance is thought to be due to metabolism.

Mean renal clearance of glycopyrronium following inhalation was in the range of 17.4 and 24.4 litres/h. Active tubular secretion contributes to the renal elimination of glycopyrronium. Up to 23% of the delivered dose was found in urine as parent drug.

Glycopyrronium plasma concentrations declined in a multi-phasic manner. The mean terminal elimination half-life was much longer after inhalation (33 to 57 hours) than after intravenous (6.2 hours) and oral (2.8 hours) administration. The elimination pattern suggests sustained lung absorption and/or transfer of glycopyrronium into the systemic circulation at and beyond 24 h after inhalation.

Linearity/non-linearity

Indacaterol

Systemic exposure to indacaterol increased with increasing (delivered) dose (120 micrograms to 480 micrograms) in a dose proportional manner.

Glycopyrronium

In COPD patients both systemic exposure and total urinary excretion of glycopyrronium at pharmacokinetic steady state increased about dose-proportionally over the (delivered) dose range of 44 to 176 micrograms.

Special populations

Indacaterol/Glycopyrronium

A population pharmacokinetic analysis of data in COPD patients after inhalation of Indacaterol/Glycopyrronium indicated no significant effect of age, gender and (lean body) weight on the systemic exposure to indacaterol and glycopyrronium. Lean body weight (which is a function of weight and height) was identified as a covariate. A negative correlation between systemic exposure and lean body weight (or body weight) was observed; however, no dose adjustment is recommended due to the magnitude of the change or the predictive precision of lean body weight.

Smoking status and baseline FEV₁ had no apparent effect on systemic exposure to indacaterol and glycopyrronium after inhalation of Indacaterol/Glycopyrronium .

Indacaterol

A population pharmacokinetic analysis showed that there is no clinically relevant effect of age (adults up to 88 years), sex, weight (32-168 kg) or race on the pharmacokinetics of indacaterol. It did not suggest any difference between ethnic subgroups in this population.

Glycopyrronium

A population pharmacokinetic analysis of data in COPD patients identified body weight and age as factors contributing to inter-patient variability in systemic exposure. Glycopyrronium at the recommended dose can be safely used in all age and body weight groups.

Gender, smoking status and baseline FEV₁ had no apparent effect on systemic exposure.

Patients with hepatic impairment Indacaterol/Glycopyrronium :

Based on the clinical pharmacokinetic characteristics of its monotherapy components, Indacaterol/Glycopyrronium can be used at the recommended dose in patients with mild and moderate hepatic impairment. No data are available for subjects with severe hepatic impairment.

Indacaterol:

Patients with mild and moderate hepatic impairment showed no relevant changes in C_{max} or AUC of indacaterol, nor did protein binding differ between mild and moderate hepatic impaired subjects and their healthy controls. Studies in subjects with severe hepatic impairment were not performed.

Glycopyrronium:

Clinical studies have not been conducted in patients with hepatic impairment. Glycopyrronium is cleared predominantly from the systemic circulation by renal excretion. Impairment of the hepatic metabolism of glycopyrronium is not thought to result in a clinically relevant increase of systemic exposure.

Patients with renal impairment

Indacaterol/Glycopyrronium :

Based on the clinical pharmacokinetic characteristics of its monotherapy components, Indacaterol/Glycopyrronium can be used at the recommended dose in patients with mild to moderate renal impairment. In patients with severe renal impairment or end-stage renal disease requiring dialysis, Indacaterol/Glycopyrronium should be used only if the expected benefit outweighs the potential risk.

Indacaterol:

Due to the very low contribution of the urinary pathway to total body elimination of indacaterol maleate, a study in renal impaired subjects was not performed.

Glycopyrronium:

Renal impairment has an impact on the systemic exposure to glycopyrronium bromide. A moderate mean increase in total systemic exposure (AUC_{last}) of up to 1.4-fold was seen in subjects with mild and moderate renal impairment and up to 2.2-fold in subjects with severe renal impairment and end-stage renal disease. In COPD patients with mild and moderate renal impairment (estimated glomerular filtration rate, eGFR ≥ 30 ml/min/1.73 m²) glycopyrronium bromide can be used at the recommended dose.

Ethnicity

Indacaterol/Glycopyrronium:

There were no major differences in total systemic exposure (AUC) for both compounds between Japanese and Caucasian subjects. Insufficient pharmacokinetic data is available for other ethnicities or races.

Indacaterol:

No difference between ethnic subgroups was identified. Limited treatment experience is available for the black population.

Glycopyrronium:

There were no major differences in total systemic exposure (AUC) between Japanese and Caucasian subjects. Insufficient pharmacokinetic data is available for other ethnicities or races.

5.3 Preclinical safety data

Indacaterol/Glycopyrronium

Pre-clinical studies included *in vitro* and *in vivo* safety pharmacology assessments, repeated-dose inhalation toxicity studies in rats and dogs and an inhalation embryo-foetal development study in rats.

Increased heart rates were apparent in dogs at all doses of Indacaterol/Glycopyrronium and each monotherapy component. The effects on heart rate for Indacaterol/Glycopyrronium increased in magnitude and duration when compared with the changes observed for each component alone consistent with an additive response. Shortening of electrocardiograph intervals and decreased systolic and diastolic blood pressure were also apparent. Indacaterol administered to dogs alone or in Indacaterol/Glycopyrronium was associated with a similar incidence and severity of myocardial lesions. Systemic exposures (AUC) at the no-observed-adverse-effect level (NOAEL) for myocardial lesions were 64- and 59-fold higher than in humans, for each component respectively.

No effects on the embryo or foetus were seen at any dose level of Indacaterol/Glycopyrronium during an embryo-foetal development study in rats. Systemic exposures (AUC) at the no-observed-adverse-effect level (NOAEL) were 79- and 126-fold higher than in humans, for indacaterol and glycopyrronium respectively.

Indacaterol

Effects on the cardiovascular system attributable to the beta₂-agonistic properties of indacaterol included tachycardia, arrhythmias and myocardial lesions in dogs. Mild irritancy of the nasal cavity and larynx were seen in rodents. All these findings occurred at exposures sufficiently in excess of those anticipated in humans.

Although indacaterol did not affect general reproductive performance in a rat fertility study, a decrease in the number of pregnant F₁ offspring was observed in the peri- and post-developmental rat study at an exposure 14-fold higher than in humans treated with indacaterol. Indacaterol and its metabolites transferred rapidly into the milk of lactating rats. Indacaterol was not embryotoxic or teratogenic in rats or rabbits.

Genotoxicity studies did not reveal any mutagenic or clastogenic potential. Carcinogenicity was assessed in a two-year rat study and a six-month transgenic mouse study. Increased incidences of benign ovarian leiomyoma and focal hyperplasia of ovarian smooth muscle in rats were consistent with similar findings reported for other beta₂-adrenergic agonists. No evidence of carcinogenicity was seen in mice. Systemic exposures (AUC) in rats and mice at the no-observed-adverse-effect levels in these studies were at least 7- and 49-fold higher, respectively, than in humans treated with indacaterol once a day at the maximum recommended therapeutic dose.

Glycopyrronium

Non-clinical data reveal no special hazard for humans based on conventional studies of safety pharmacology, repeated dose toxicity, genotoxicity, carcinogenic potential, toxicity to reproduction and development.

Effects attributable to the muscarinic receptor antagonist properties of glycopyrronium bromide included mild to moderate increases in heart rate in dogs, lens opacities in rats and, reversible changes associated with reduced glandular secretions in rats and dogs. Mild irritancy or adaptive changes in the respiratory tract were seen in rats. All these findings occurred at exposures sufficiently in excess of those anticipated in humans.

Glycopyrronium was not teratogenic in rats or rabbits following inhalation administration. Fertility and pre- and post-natal development were not affected in rats. Glycopyrronium bromide and its metabolites did not significantly cross the placental barrier of pregnant mice, rabbits and dogs.

Glycopyrronium bromide (including its metabolites) was excreted into the milk of lactating rats and reached up to 10-fold higher concentrations in the milk than in the blood of the dam.

Genotoxicity studies did not reveal any mutagenic or clastogenic potential for glycopyrronium bromide. Carcinogenicity studies in transgenic mice using oral administration and in rats using inhalation administration revealed no evidence of carcinogenicity at systemic exposures (AUC) of approximately 53-fold higher in mice and 75-fold higher in rats than the maximum recommended dose once daily for humans.

6. PHARMACEUTICAL PARTICULARS

6.1 List of excipients

Capsule content

Lactose monohydrate (may contain milk protein)

Magnesium stearate

Capsule shell

Hypromellose

Potassium Chloride

Carrageenan

FD & C Yellow/Tartrazine (E102)

Purified water

6.2 Incompatibilities

Not applicable.

6.3 Shelf life

2 years

After first opening: 90 days (bottle of 90 capsules).

The inhaler from each pack or reused inhaler should be disposed after 90 days, counting from the first use of the inhaler.

6.4 Special precautions for storage

Blister: This medicinal product does not require any special storage conditions.

Bottle: Do not store above 30°C.

The capsules must always be stored in the original blister/bottle to protect from moisture and only removed immediately before use.

6.5 Nature and contents of container

Inhaler body and white cap are made from acrylonitrile butadiene styrene, translucent red push buttons are made from methyl methacrylate acrylonitrile butadiene styrene. Needles and springs are made from

stainless steel.

PA/Alu/PVC – PET/Alu peelable perforated unit-dose blister and High Density Polyethylene (HDPE) bottle with polypropylene (PP) cap with inviolability Polypropylene (PP) ring.

Packs containing 10 x 1, 30 x 1, 60 x 1, 90 x 1 hard capsules in peelable perforated unit-dose blister, together with one inhaler.

Packs containing 10 x 1, 30 x 1, 60 x 1 hard capsules in peelable perforated unit-dose blister.

Pack containing 90 hard capsules in bottle, together with one inhaler.

Not all pack sizes may be marketed.

6.6 Special precautions for disposal and other handling

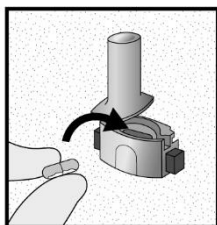
The inhaler provided with each new prescription should be used. The inhaler from each pack or reused inhaler should be disposed after 90 days, counting from the first use of the inhaler.

Any unused medicinal product or waste material should be disposed of in accordance with local requirements.

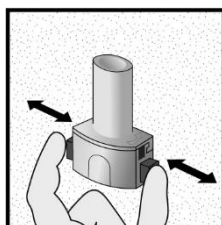
HDPE bottle should be closed immediately after removal of one capsule.

Instructions for handling and use

Please read the full **Instructions for Use** before using the DILABRO .



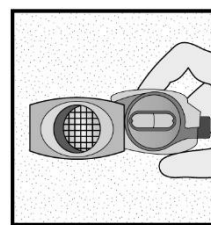
Insert



Pierce and release



Inhale deeply

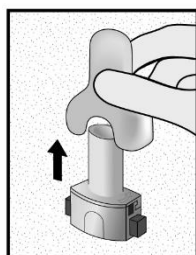


Check capsule is empty

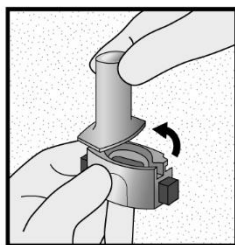
1

2

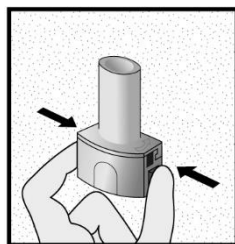
3



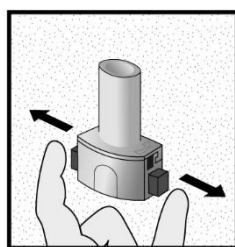
Step 1a:
Pull off cap



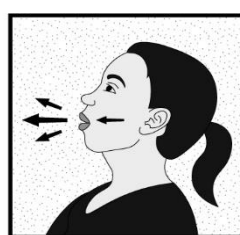
Step 1b:
Open inhaler



Step 2a:
Pierce capsule once
Hold the inhaler upright. Pierce capsule by firmly pressing both side buttons at the same time. You should hear a noise as the capsule is pierced. Only pierce the capsule once.



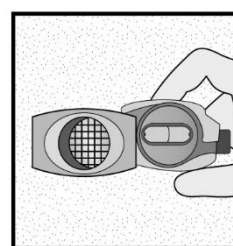
Step 2b:
Release side buttons



Step 3a:
Breathe out fully
Do not blow into the inhaler.



Step 3b:
Inhale medicine deeply
Hold the inhaler as shown in the picture. Place the mouthpiece in your mouth and close your lips firmly around it. Do not press the side buttons.



Check capsule is empty
Open the inhaler to see if any powder is left in the capsule.

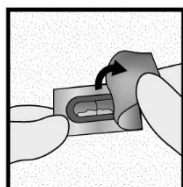
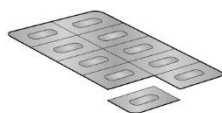
If there is powder left in the capsule:

- Close the inhaler.
- Repeat steps 3a to 3c.

Powder remaining



Empty



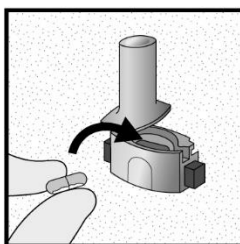
Step 1c:

Remove capsule from the bottle or blister. In case of blister, separate one of the blisters from the blister card.

Peel open the blister and remove the capsule.

Do not push the capsule through the foil.

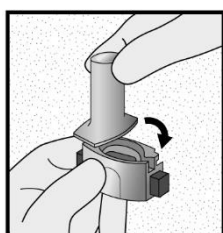
Do not swallow the capsule.



Step 1d:

Insert capsule

Never place a capsule directly into the mouthpiece.



Step 1e:

Close inhaler

Breathe in quickly and as deeply as you can.

During inhalation you will hear a whirring noise.

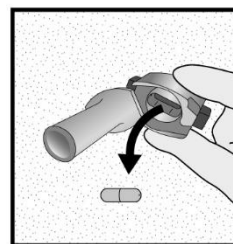
You may taste the medicine as you inhale.



Step 3c:

Hold breath

Hold your breath for up to 5 seconds.



Remove empty capsule

Put the empty capsule in your household waste. Close the inhaler and replace the cap.

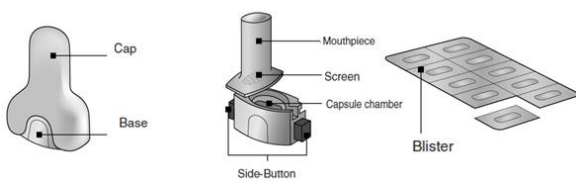
Important Information

- DILABRO capsules must always be stored in the blister card/bottle and only removed immediately before use.
- Do not push the capsule through the foil to remove it from the blister.
- Do not swallow the capsule.
- Do not use the DILABRO capsules with any other inhaler.
- Do not use the DILABRO inhaler to take any other capsule medicine.
- Never place the capsule into your mouth or the mouthpiece of the inhaler.
- Do not press the side buttons more than once.
- Do not blow into the mouthpiece.
- Do not press the side buttons while inhaling through the mouthpiece.
- Do not handle capsules

			with wet hands. • Never wash your inhaler with water.
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Your DILABRO Inhaler pack contains:

- One DILABRO inhaler
- One or more blister cards/bottle, each containing DILABRO capsules to be used in the inhaler



Inhaler

Inhaler base

Blister

Card

Frequently Asked Questions

Why didn't the inhaler make a noise when I inhaled?

The capsule may be stuck in the capsule chamber. If this happens, carefully loosen the capsule by tapping the base of the inhaler. Inhale the medicine again by repeating steps 3a to 3c.

What should I do if there is powder left inside the capsule?

You have not received enough of your medicine. Close the inhaler and repeat steps 3a to 3c.

I coughed after inhaling – does this matter?

This may happen. As long as the capsule is empty you have received enough of your medicine.

I felt small pieces of the capsule on my tongue – does this matter?

This can happen. It is not harmful. The chances of the capsule breaking into small pieces will be increased if the capsule is pierced more than once.

Cleaning the inhaler

Wipe the mouthpiece inside and outside with a clean, dry, lint-free cloth to remove any powder residue. Keep the inhaler dry. Never wash your inhaler with water.

Disposing of the inhaler after use

Each inhaler should be disposed of after all capsules have been used. Ask your pharmacist how to dispose of medicines and inhalers that are no longer required.

7. MARKETING AUTHORISATION HOLDER

S.F. Group S.r.l.
Via Tiburtina 1143
Rome, 00156, Italië

8. MARKETING AUTHORISATION NUMBER(S)

RVG 134537

9. DATE OF FIRST AUTHORISATION/RENEWAL OF THE AUTHORISATION

Datum van eerste verlening van de vergunning: 7 september 2026

10. DATE OF REVISION OF THE TEXT

Detailed information on this medicine is available on the web site of: {name of Member State/Agency}