

KOFAREST-PD Drops

Composition:

Each ml of **KOFAREST-PD Drops** contains:

Salbutamol	0.5 mg
Ambroxol Hydrochloride	7.5 mg
Guaiphenesin	12.5 mg
Menthol	As syrupy base

Pharmacology:

Salbutamol is a selective β -2-adrenoceptor agonist. At therapeutic doses it acts on the β -2-adrenoreceptors of bronchial muscle with little or no action on the α 1-adrenoreceptors of cardiac muscle. Salbutamol stimulates the production of intracellular cyclic-AMP, enhancing the binding of intracellular calcium to the cell membrane and endoplasmic reticulum, resulting in bronchodilation. It also enhances mucociliary clearance.

Activation of the β -2-adrenoreceptors opens ATPase channels and drives potassium from the extracellular to the intracellular space. This both decreases extracellular hyperkalemia and increases intracellular potassium, so decreasing the chance of arrhythmia.

Ambroxol hydrochloride is a mucolytic agent, which liquefies thick, tenacious sputum. Dissolving mucopolysaccharide fibers reduces viscosity of sputum. It also improves mucociliary clearance of secretions.

Guaiphenesin is an expectorant. It increases the output of sputum and bronchial secretions by reducing adhesiveness and surface tension. By increasing the volume of bronchial secretions, it reduces the viscosity of tenacious sputum. The increased flow of less viscid secretions also promotes ciliary action.

Menthol has a cooling effect on the throat. It has been suggested that the benefits of menthol may be due to an effect on calcium channels of sensory nerves.

KOFAREST-PD Drops is an ideal combination. The ingredients are well absorbed after oral administration and provide prompt relief.

Indications

KOFAREST-PD Drops is indicated for the treatment of productive cough associated with bronchospasm in conditions such as bronchitis and bronchial asthma as well as all conditions associated with tenacious mucus, wheezing and chest congestion.

Contraindications

KOFAREST-PD Drops is contraindicated in patients with hypersensitivity to any ingredient of the formulation.

Precautions

While treating cough as a symptom, it is important to make every effort to determine and treat appropriately the underlying cause, such as a specific infection.

Caution should be observed while prescribing **KOFAREST-PD Drops** to children with hypertension, cardiovascular disease, uncontrolled juvenile diabetes mellitus, hyperthyroidism, seizures or in patients who are unusually hypersensitive to sympathomimetic amines.

Pregnancy & Lactation

Safety of **KOFAREST-PD Drops** has not been studied in pregnancy and lactation in humans. Therefore, probable benefits should be weighed against possible risks, before prescribing.

Drug Interactions

Hypokalemia with high doses of β_2 -agonists may result in increased susceptibility to digitalis induced cardiac arrhythmias. Hypokalemia may be enhanced by concomitant administration of aminophylline or other xanthines, corticosteroids or by diuretic therapy.

Other sympathomimetic bronchodilators or epinephrine should not be used concomitantly with salbutamol, since their combined effect on the cardiovascular system may be deleterious to the patient.

Salbutamol should be administered with caution in patients being treated with monoamine oxidase (MAO) inhibitors or tricyclic antidepressants, since the action of salbutamol on the vascular system may be potentiated.

Adverse Reactions

The adverse reactions to salbutamol are similar in nature to those of other sympathomimetic agents and include nervousness and tremor. The frequency of these side effects appears to diminish with continued therapy. Other commonly reported reactions include increased heart rate, palpitations, dizziness, headache, drowsiness, vomiting, nausea, sweating and muscle cramps. These reactions are generally transient and usually do not require treatment.

With ambroxol gastrointestinal side effects may occur occasionally and a transient rise in serum aminotransferase values has been reported.

Gastrointestinal discomfort has occasionally been reported with Guaiphenesin.

Dosage & Administration

The usual recommended dose of **KOFAREST-PD Drops** in children is as under:

- ✦ 1-2 years age: 0.8 ml t.i.d.
- ✦ 2-3 years age: 1.2 ml t.i.d.

Presentation

KOFAREST-PD Drops is available in a bottle of 15 ml with calibrated dropper.