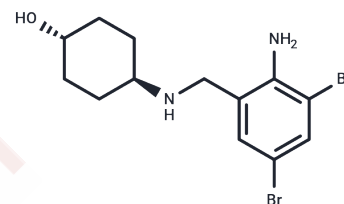


Ambroxol

Chemical Properties

CAS No. :	18683-91-5
Formula:	C ₁₃ H ₁₈ Br ₂ N ₂ O
Molecular Weight:	378.1
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	Ambroxol (NA-872) is a secretolytic agent used in the treatment of respiratory diseases associated with viscid or excessive mucus. It is the active ingredient of Mucosolvan, Lasolvan or Mucoangin. The substance is a mucoactive drug with several properties including secretolytic and secretomotoric actions that restore the physiological clearance mechanisms of the respiratory tract which play an important role in the body's natural defense mechanisms. It stimulates synthesis and release of surfactant by type II pneumocytes. Surfactants act as an anti-glue factor by reducing the adhesion of mucus to the bronchial wall, in improving its transport and in providing protection against infection and irritating agents.
Targets(IC50)	Autophagy, Glucosidase, Cytochromes P450, glycosidase

Solubility Information

Solubility	DMSO: 55 mg/mL (145.46 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (5.29 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.6448 mL	13.224 mL	26.448 mL
5 mM	0.529 mL	2.6448 mL	5.2896 mL
10 mM	0.2645 mL	1.3224 mL	2.6448 mL
50 mM	0.0529 mL	0.2645 mL	0.529 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Preissner S, et al. Nucleic Acids Res. 2010, 38(Database issue):D237-43.

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