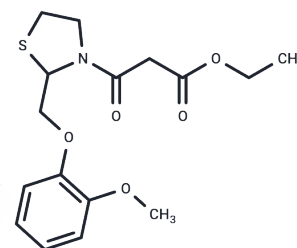


Moguisteine

Chemical Properties

CAS No. : 119637-67-1
 Formula: C₁₆H₂₁NO₅
 Molecular Weight: 339.41
 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	Moguisteine (BBR-2173) is a new-type peripheral non-narcotic antitussive drug.
Targets(IC50)	Others,Opioid Receptor
In vitro	Moguisteine is a novel peripheral nonnarcotic antitussive agent that has proved to be as active as codeine in several experimental models of induced cough in guinea-pigs and dogs. It acts neither through the opiate receptors nor on the cough centre, and its action is possibly mediated by the interaction with rapidly adapting irritant receptors along the tracheobronchial tree. In controlled clinical trials, moguisteine has been shown to be safe and to effectively reduce cough associated with such respiratory disorders as acute upper respiratory tract infection, chronic bronchitis, pulmonary fibrosis and malignancies.

Solubility Information

Solubility	DMSO: 63 mg/mL (185.62 mM),Sonication is recommended. Ethanol: 63 mg/mL (185.62 mM),Sonication is recommended. H ₂ O: < 1 mg/mL (insoluble or slightly soluble), (< 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 (5.89 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	2.9463 mL	14.7314 mL	29.4629 mL
5 mM	0.5893 mL	2.9463 mL	5.8926 mL
10 mM	0.2946 mL	1.4731 mL	2.9463 mL
50 mM	0.0589 mL	0.2946 mL	0.5893 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

Gallico L, et al. Br J Pharmacol, 1994, 112(3), 795-800.

Gallico L, et al. Eur Respir J, 1996, 9(3), 478-485.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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