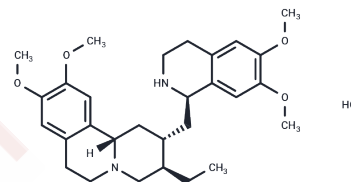


Emetine hydrochloride

Chemical Properties

CAS No. :	14198-59-5
Formula:	C ₂₉ H ₄₁ ClN ₂ O ₄
Molecular Weight:	517.1
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	This novel compound is an orally bioavailable antagonist of P2X ₃ /P2X _{2/3} receptors, exhibiting potent activity with a pIC ₅₀ of 8 in both human and rat, and a pIC ₅₀ of 7.3 specifically for the human P2X _{2/3} receptor. It demonstrates high brain penetration, evidenced by a brain to plasma ratio of 6, and effectively blocks agonist-evoked intracellular Ca ²⁺ flux and inward currents within the nanomolar range (10 nM to 1 μM) in cell lines that express human P2X ₃ and P2X _{2/3} receptors recombinantly. The compound also shows favorable pharmacokinetic properties, with a half-life (t _{1/2}) of 1.63 hours and a time to reach maximum concentration (T _{max}) of 30 minutes.
Targets(IC ₅₀)	Others

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.9339 mL	9.6693 mL	19.3386 mL
5 mM	0.3868 mL	1.9339 mL	3.8677 mL
10 mM	0.1934 mL	0.9669 mL	1.9339 mL
50 mM	0.0387 mL	0.1934 mL	0.3868 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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