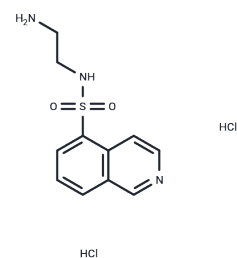


H-9 dihydrochloride

Chemical Properties

CAS No. : 116700-36-8
 Formula: C₁₁H₁₅Cl₂N₃O₂S
 Molecular Weight: 324.23
 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	H-9 dihydrochloride is a potent protein kinase (PKA) inhibitor. H-9 Dihydrochloride significantly reduces the excitatory response to 5-HT at low concentrations. H-9 Dihydrochloride affects pharyngeal activity. H-9 Dihydrochloride inhibits signaling and cell growth of EGF (H-9 Dihydrochloride inhibits EGF (epidermal growth factor)-dependent signaling and cell growth in epithelial cell lines.
Targets(IC ₅₀)	EGFR, 5-HT Receptor, PKA
In vitro	Significantly inhibiting A431 cells, H-9 Dihydrochloride is more effective at inhibiting cyclic nucleotide-dependent protein kinases than other kinases[1].
In vivo	Microperfusing H-9 Dihydrochloride (100 μM) prevents picrotoxin seizures in 50% of the animals and significantly reduces the mean number of seizures and mean seizure duration[2].

Solubility Information

Solubility	DMSO: Soluble, (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.0842 mL	15.4212 mL	30.8423 mL
5 mM	0.6168 mL	3.0842 mL	6.1685 mL
10 mM	0.3084 mL	1.5421 mL	3.0842 mL
50 mM	0.0617 mL	0.3084 mL	0.6168 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

Ito M, et al. A potent inhibitor of protein kinase C inhibits natural killer activity. *Int J Immunopharmacol.* 1988;10(3): 211-6.

Vázquez-López A, et al. Role of cAMP-dependent protein kinase on acute picrotoxin-induced seizures. *Neurochem Res.* 2005 May;30(5):613-8.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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