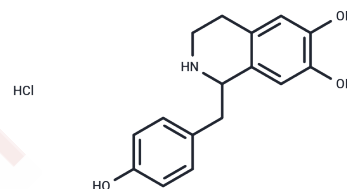


Higenamine hydrochloride

Chemical Properties

CAS No. :	11041-94-4
Formula:	C ₁₆ H ₁₈ ClNO ₃
Molecular Weight:	307.772
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	Higenamine hydrochloride (norcoclaurine HCl) has been demonstrated to be a β 2 adrenoreceptor agonist. Adrenergic receptors, or adrenoceptors, belong to the class of G protein-coupled receptors, and are the most prominent receptors in the adipose membrane, besides also being expressed in skeletal muscle tissue.
Targets(IC50)	Apoptosis,MAPK,Adrenergic Receptor,ROS Kinase,MDM-2/p53

Solubility Information

Solubility	DMSO: 123.75 mg/mL (402.08 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 (6.5 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	3.2492 mL	16.2459 mL	32.4918 mL
5 mM	0.6498 mL	3.2492 mL	6.4984 mL
10 mM	0.3249 mL	1.6246 mL	3.2492 mL
50 mM	0.065 mL	0.3249 mL	0.6498 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

Tsukiyama M, et al. Beta2-adrenoceptor-mediated tracheal relaxation induced by higenamine from *Nandina domestica* Thunberg. *Planta Med.* 2009 Oct;75(13):1393-9.

Zhang H, Liang B, Sang X, et al. Discovery of Potential Inhibitors of SARS-CoV-2 Main Protease by a Transfer Learning Method. *Viruses.* 2023, 15(4): 891.

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