Data Sheet (Cat.No.TN8724)

TargetMol

Harmaline hydrochloride dihydrate

Chemical Properties

CAS No. : 6027-98-1

Formula: C13H14N2O.HCl.2H2O

Molecular Weight: 286.76

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	Harmaline hydrochloride dihydrate is a β-carboline alkaloid that primarily acts as a monoamine oxidase (MAO-A) inhibitor, enhancing the effects of monoamine neurotransmitters in the central nervous system by inhibiting their metabolism. It also acts as a DYRK1A kinase inhibitor and exerts antioxidant effects.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.4872 mL	17.4362 mL	34.8724 mL
5 mM	0.6974 mL	3.4872 mL	6.9745 mL
10 mM	0.3487 mL	1.7436 mL	3.4872 mL
50 mM	0.0697 mL	0.3487 mL	0.6974 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

Tarpley M, et al. Data supporting a pilot high-throughput screen of a drug library for identification of DYRK1A inhibitors and high-content imaging analysis of identified harmine analogs. Data Brief. 2021 May 30;37:107189.
Gerardy J, et al. Comparative effects of dehydropirlindole and other compounds on rat brain monoamine oxidase type A. Prog Neuropsychopharmacol Biol Psychiatry. 2002 Jan;26(1):75-9.