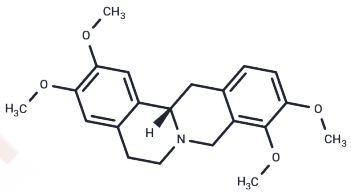
Data Sheet (Cat.No.T4S0779)

TargetMol

D-tetrahydropalmatine

Chemical Properties



CAS No. : 3520-14-7

Formula: C21H25NO4

Molecular Weight: 355.43

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	D-Tetrahydropalmatine is a organic cation transporter 1 (OCT1) inhibitor, it can obviously inhibit the uptake of monocrotaline (MCT) in MDCK-hOCT1 cells and isolate rat primary hepatocytes, and attenuate the viability reduction and LDH release of the primary cultured rat hepatocytes caused by MCT.
Targets(IC50)	Dopamine Receptor

Solubility Information

Solubility	DMSO: 25 mg/mL (70.34 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 (5.63 mM),Sonication is recommended. *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.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.8135 mL	14.0675 mL	28.1349 mL
5 mM	0.5627 mL	2.8135 mL	5.627 mL
10 mM	0.2813 mL	1.4067 mL	2.8135 mL
50 mM	0.0563 mL	0.2813 mL	0.5627 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

Tu M , Sun S , Wang K , et al. Organic cation transporter 1 mediates the uptake of monocrotaline and plays an important role in its hepatotoxicity[J]. Toxicology, 2013, 311(3):225-230.

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481