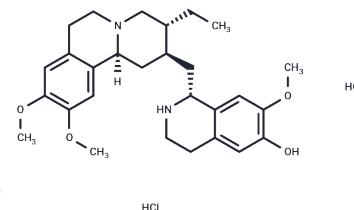


Cephaeline dihydrochloride

Chemical Properties

CAS No. :	5853-29-2
Formula:	C ₂₈ H ₄₀ Cl ₂ N ₂ O ₄
Molecular Weight:	539.54
Appearance:	no data available
Storage:	keep away from direct sunlight Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	(-)-Cephaeline (dihydrochloride) is an enantiomer of Cephaeline. Cephaeline is a selective CYP2D6 inhibitor (IC ₅₀ : 121 μ M).
Targets(IC ₅₀)	P450
In vitro	IC ₅₀ of Cephaeline against CYP2C9, CYP2D6, and CYP3A4 is over 1000, 121 and 1000 μ M, respectively. Further experiments are performed to determine inhibition constants (K _i) for Cephaeline on the CYP2D6 and CYP3A4 activities. Graphic analysis of Dixon plots at various Cephaeline concentrations for each of the two CYP enzyme assays yield K _i s of 54 and 355 μ M for CYP2D6 and CYP3A4, respectively.

Solubility Information

Solubility	DMSO: 80mg/ml H ₂ O: 60mg/ml (< 1 mg/ml refers to the product slightly soluble or insoluble)
------------	--

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.8534 mL	9.2672 mL	18.5343 mL
5 mM	0.3707 mL	1.8534 mL	3.7069 mL
10 mM	0.1853 mL	0.9267 mL	1.8534 mL
50 mM	0.0371 mL	0.1853 mL	0.3707 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.

Reference

Asano T, et al. Metabolism of ipecac alkaloids Cephaeline and Emetine by human hepatic microsomal cytochrome P450s, and their inhibitory effects on P450 enzyme activities. Biol Pharm Bull. 2001 Jun;24(6):678-82.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only· Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:36 Washington Street,Wellesley Hills,MA 02481