Data Sheet (Cat.No.T1607)

TargetMol

Hydrastinine hydrochloride

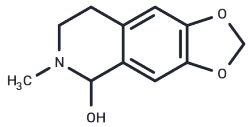
Chemical Properties

CAS No. : 4884-68-8

Formula: C11H14ClNO3

Molecular Weight: 243.69

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	Hydrastinine hydrochloride is a semisynthetic alkaloid from the hydrolysis of the alkaloid Hydrastine, used as a haemostatic drug.
Targets(IC50)	Others
Kinase Assay	Cyclic AMP-dependent protein kinase activity is assayed in a reaction mixture containing, in a final volume of 0.2 mL, 50 mM Tris-HCl (pH 7.0), 10 mM magnesium acetate, 2 mM EGTA, 1 μM cyclic AMP or absence of cyclic AMP, 3.3 to 20 μM [r-32P] ATP (4×105 c.p.m.), 0.5 μg of the enzyme, 100 μg of histone H2B and compound. The mixture is incubated at 30°C for 5 min. The reaction is terminated by adding 1mL of ice-cold 20% trichloroacetic acid after adding 500 μg of bovine serum albumin as a carrier protein. The sample is centrifuged at 3000 r.p.m. for 15min, the pellet is resuspended in ice-cold 10% trichloro-acetic acid solution and the centrifugation-resuspension cycle is repeated three times. The final pellet is dissolved in 1 mL of 1 N NaOH and radioactivity is measured with a liquid scintillation counter[1].

Solubility Information

Solubility	H2O: 10 mM,Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.1036 mL	20.5179 mL	41.0357 mL
5 mM	0.8207 mL	4.1036 mL	8.2071 mL
10 mM	0.4104 mL	2.0518 mL	4.1036 mL
50 mM	0.0821 mL	0.4104 mL	0.8207 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

POE CF, JOHNSON CC. Acta Pharmacol Toxicol (Copenh). 1954; 10(4):338-46.