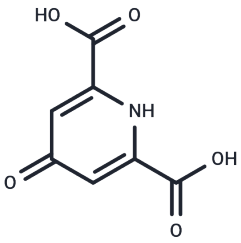
Data Sheet (Cat.No.T5884)

TargetMol

Chelidamic acid

Chemical Properties



CAS No. : 138-60-3

Formula: C7H5NO5

Molecular Weight: 183.12

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	Chelidamic acid is a heterocyclic organic acid with a pyran skeleton and acts as an inhibitor of glutamate decarboxylase, with a Ki of 33 μM.
Targets(IC50)	Others,GluR
In vitro	Chelidonic acid inhibited the glutamate-dependent formation of apoenzyme. Chelidonic acid itself did not promote formation of apoenzyme and did not react with free pyridoxal-P.Chelidamic acid is inhibitors of glutamate decarboxylase, with a Ki of 33 μM [1].

Solubility Information

Solubility	DMSO: 60 mg/mL (327.65 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: 1 mg/mL (5.46 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	5.4609 mL	27.3045 mL	54.609 mL
5 mM	1.0922 mL	5.4609 mL	10.9218 mL
10 mM	0.5461 mL	2.7304 mL	5.4609 mL
50 mM	0.1092 mL	0.5461 mL	1.0922 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

Porter T G , Martin D L . Chelidonic acid and other conformationally restricted substrate analogues as inhibitors of rat brain glutamate decarboxylase[J]. Biochemical Pharmacology, 1986, 34(23):4145-4150.
Espinet P , García-Orodea, Esther, Miguel, Jesús A. Mesogenic Palladium Complexes with Pincer Ligands Derived from Dipicolinic Acid\r, ?[J]. Inorganic Chemistry, 2000, 39(16):3645-3651.