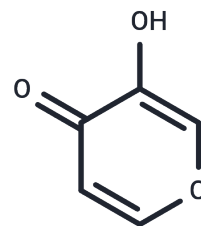


Pyromeconic acid

Chemical Properties

CAS No. :	496-63-9
Formula:	C ₅ H ₄ O ₃
Molecular Weight:	112.08
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	Pyromeconic acid (3-hydroxy-4H-pyran-4-one) and derivatives thereof are potent inhibitors of endonuclease
Targets(IC50)	Anti-infection,Antifungal

Solubility Information

Solubility	DMSO: 45 mg/mL (401.5 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 (17.84 mM),Sonication is recommended. <i>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.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	8.9222 mL	44.611 mL	89.222 mL
5 mM	1.7844 mL	8.9222 mL	17.8444 mL
10 mM	0.8922 mL	4.4611 mL	8.9222 mL
50 mM	0.1784 mL	0.8922 mL	1.7844 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

Hashidoko, Yasuyuki. Pyromeconic Acid and Its Glucosidic Derivatives from Leaves of *Erigeron annuus*, and the Siderophile Activity of Pyromeconic Acid[J]. *Bioscience Biotechnology & Biochemistry*, 1995, 59(5):886-890.

Credille C V , Chen Y , Cohen S M . Fragment-based Identification of Influenza Endonuclease Inhibitors[J]. *Journal of Medicinal Chemistry*, 2016:acs.jmedchem.6b00628.

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