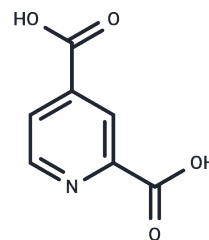


lutidinic acid

Chemical Properties

CAS No. :	499-80-9
Formula:	C7H5NO4
Molecular Weight:	167.12
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	lutidinic acid (2,4-Dicarboxypyridine) is an in vitro and in cell inhibitor, as well as a known inhibitor of the histone lysine demethylases.
Targets(IC50)	Histone Demethylase,Histone Methyltransferase

Solubility Information

Solubility	DMSO: 30 mg/mL (179.51 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 (11.97 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	5.9837 mL	29.9186 mL	59.8372 mL
5 mM	1.1967 mL	5.9837 mL	11.9674 mL
10 mM	0.5984 mL	2.9919 mL	5.9837 mL
50 mM	0.1197 mL	0.5984 mL	1.1967 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

Hagos, Y.,Schley, G.,Schödel, J., et al. α -Ketoglutarate-related inhibitors of HIF prolyl hydroxylases are substrates of renal organic anion transporters 1 (OAT1) and 4 (OAT4). 2012, Pflugers.Arch. 464(4), 367-374 .

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