

4-Hydroxyphenylglyoxylic Acid

Chemical Properties

CAS No. :	15573-67-8
Formula:	C ₈ H ₆ O ₄
Molecular Weight:	166.131
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>

Biological Description

Description	4-Hydroxyphenylglyoxylic acid, an active metabolite of the prodrug oxfenicine, functions as an inhibitor of carnitine palmitoyltransferase 1 (CPT1). It effectively inhibits CPT1 in isolated rat liver mitochondria at concentrations of 200 to 1,000 μM and restricts oleate oxidation in isolated rat hepatocytes.
Targets(IC50)	Others,Acyltransferase

Solubility Information

Solubility	DMSO: 20.00 mg/mL (120.39 mM),Sonication is recommended. DMF: 20.00 mg/mL (120.39 mM),Sonication is recommended. PBS pH 7.2: 10.00 mg/mL (60.19 mM),Sonication is recommended. Ethanol: 10.00 mg/mL (60.19 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	6.0194 mL	30.0969 mL	60.1938 mL
5 mM	1.2039 mL	6.0194 mL	12.0388 mL
10 mM	0.6019 mL	3.0097 mL	6.0194 mL
50 mM	0.1204 mL	0.6019 mL	1.2039 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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