Data Sheet (Cat.No.T4931)

TargetMol

Dihydroxyfumaric acid hydrate

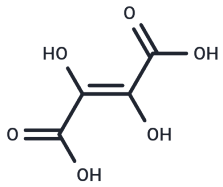
Chemical Properties

CAS No. : 199926-38-0

Formula: C4H6O7

Molecular Weight: 166.09

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	Dihydroxyfumaric acid is a known generator of superoxide anions and by hydroxyl free radicals. Dihydroxyfumarate exposure can cause insulin inhibitory effects. It can spontaneously convert to hydroxypyruvate or to oxaloglycolate.
Targets(IC50)	Endogenous Metabolite

Solubility Information

Solubility	DMSO: 55 mg/mL (331.15 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 (12.04 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	6.0208 mL	30.1042 mL	60.2083 mL
5 mM	1.2042 mL	6.0208 mL	12.0417 mL
10 mM	0.6021 mL	3.0104 mL	6.0208 mL
50 mM	0.1204 mL	0.6021 mL	1.2042 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.

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