Data Sheet (Cat.No.T5064)

TargetMol

Oxalic acid dihydrate

Chemical Properties

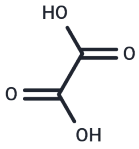
CAS No. : 6153-56-6

Formula: C2H6O6

Molecular Weight: 126.07

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

H_2O H_2O



Biological Description

Description	Oxalic acid dihydrate (Ethanedioic acid dihydrate) is a strong dicarboxylic acid occurring in many plants and vegetables. It is produced in the body by metabolism of glyoxylic acid or ascorbic acid. It is not metabolized but excreted in the urine. It is used as an analytical reagent and general reducing agent.
Targets(IC50)	Endogenous Metabolite

Solubility Information

Solubility	H2O: 143 mg/mL (1134.29 mM),Sonication is recommended. Ethanol: 400 mg/mL (3172.84 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 (15.86 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	7.9321 mL	39.6605 mL	79.321 mL
5 mM	1.5864 mL	7.9321 mL	15.8642 mL
10 mM	0.7932 mL	3.9661 mL	7.9321 mL
50 mM	0.1586 mL	0.7932 mL	1.5864 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

Anang DM, et al. Inhibitory effect of oxalic acid on bacterial spoilage of raw chilled chicken. J Food Prot. 2006 Aug; 69(8):1913-9.

Aliano NP, et al. Oxalic acid: a prospective tool for reducing Varroa mite populations in package bees. Exp Appl Acarol. 2009 Aug;48(4):303-9.

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