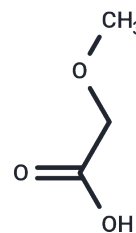


Methoxyacetic acid

Chemical Properties

CAS No. :	625-45-6
Formula:	C3H6O3
Molecular Weight:	90.08
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	Methoxyacetic acid is a metabolite of ethylene glycol monomethyl ether with HDAC inhibitory activity, inhibiting prostate cancer cell growth by inducing growth arrest and apoptosis.
Targets(IC50)	Apoptosis,Endogenous Metabolite,HDAC
In vivo	Methods: Male Fischer rats were treated with Methoxyacetic acid (30, 100, 300 mg/kg, gavage) for 5 consecutive days in the first week and then 3 times a day after a weekend break to study its effects on the rats. Results: Compared with the control group, Methoxyacetic acid administration led to a significant decrease in body weight in rats, severe degeneration of the testicular germinal epithelium, a significant decrease in thymus size, depletion of thymic cortical lymphoid components, and a decrease in bone marrow cellularity. At a dose of 300 mg/kg, it even led to a decrease in red blood cell count, hemoglobin concentration, packed cell volume, and white blood cell count. [1]

Solubility Information

Solubility	DMSO: 80 mg/mL (888.1 mM),Sonication is recommended. H2O: 80 mg/mL (888.1 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: 3.3 mg/mL (36.63 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	11.1012 mL	55.5062 mL	111.0124 mL
5 mM	2.2202 mL	11.1012 mL	22.2025 mL
10 mM	1.1101 mL	5.5506 mL	11.1012 mL
50 mM	0.222 mL	1.1101 mL	2.2202 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

Miller RR, et al. Toxicity of Methoxyacetic acid in rats. *Fundam Appl Toxicol.* 1982 Jul-Aug;2(4):158-60.

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