

Magnesium acetate tetrahydrate

Chemical Properties

CAS No. : 16674-78-5

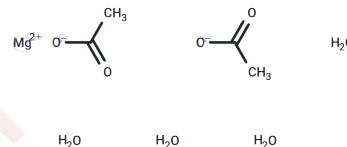
Formula: C₄H₁₄MgO₈

Molecular Weight: 214.45

Keep away from moisture

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	Magnesium acetate tetrahydrate (for molecular biology) is an inorganic salt suitable for use in molecular biology.
Targets(IC50)	Caspase,Endogenous Metabolite,Antibacterial,AMPK,Antifungal,PPAR,ROS

Solubility Information

Solubility	DMSO: 45 mg/mL (209.84 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 (9.33 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	4.6631 mL	23.3155 mL	46.6309 mL
5 mM	0.9326 mL	4.6631 mL	9.3262 mL
10 mM	0.4663 mL	2.3315 mL	4.6631 mL
50 mM	0.0933 mL	0.4663 mL	0.9326 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

Scheurell K, et al. Optimisation of a sol-gel synthesis route for the preparation of MgF₂ particles for a large scale coating process. Dalton Trans. 2015;44(45):19501-19508.

Nemeth K, et al. Synthesis and investigation of SiO₂-MgO coated MWCNTs and their potential application. Sci Rep. 2019;9(1):15113.

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