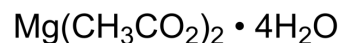


Magnesium acetate tetrahydrate

Cat. No.:	HY-Y0319G
CAS No.:	16674-78-5
Molecular Formula:	C ₄ H ₁₄ MgO ₈
Molecular Weight:	214.45
Target:	Endogenous Metabolite; Bacterial
Pathway:	Metabolic Enzyme/Protease; Anti-infection
Storage:	<div> <div>Powder</div> <div>-20°C 3 years</div> <div>4°C 2 years</div> </div> <div> <div>In solvent</div> <div>-80°C 6 months</div> <div>-20°C 1 month</div> </div>



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (466.31 mM; Need ultrasonic)					
	Preparing Stock Solutions	<div><div>Solvent</div><div>Concentration</div></div>	Mass	1 mg	5 mg	10 mg
		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
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (11.66 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (11.66 mM); Clear solution					
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (11.66 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	Magnesium acetate tetrahydrate is a hydrated form of anhydrous magnesium acetate salt. As a salt form of Magnesium, Magnesium acetate tetrahydrate is one of the bioavailable forms of magnesium and forms a very water soluble compound. Magnesium acetate tetrahydrate can be used as an electrolyte supplementation or a reagent in molecular biology experiments ^[1] .	
IC ₅₀ & Target	Microbial Metabolite	Human Endogenous Metabolite

CUSTOMER VALIDATION

- Mod Rheumatol. 2021 Nov 30;roab105.

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REFERENCES

[1]. Krisztian Nemeth, et al. Synthesis and investigation of SiO₂-MgO coated MWCNTs and their potential application. Sci Rep. 2019 Oct 22;9(1):15113.

Caution: Product has not been fully validated for medical applications. For research use only.

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