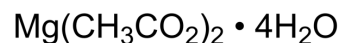


## Magnesium acetate tetrahydrate

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



### SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (466.31 mM; Need ultrasonic)			
		Solvent Concentration	Mass	
			1 mg	5 mg
			10 mg	
	Preparing Stock Solutions	1 mM	4.6631 mL	23.3155 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 <sup>[1]</sup> .	
IC <sub>50</sub> & Target	Microbial Metabolite	Human Endogenous Metabolite

---

## CUSTOMER VALIDATION

- Mod Rheumatol. 2021 Nov 30;roab105.

See more customer validations on [www.MedChemExpress.com](http://www.MedChemExpress.com)

## REFERENCES

[1]. Krisztian Nemeth, et al. Synthesis and investigation of SiO<sub>2</sub>-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.**

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA