

Magnesium sulfate

Chemical Properties

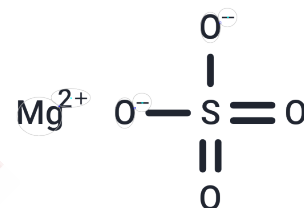
CAS No. : 7487-88-9

Formula: MgSO₄

Molecular Weight: 120.37

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 sulfate is the preferred anticonvulsant for preventing and controlling eclamptic seizures. Additionally, it is extensively utilized as a tocolytic agent.
Targets(IC50)	Others, Calcium Channel, NF-κB, NO Synthase, COX, Interleukin, Phospholipase

Solubility Information

Solubility	DMSO: 1.21 mg/mL (10.05 mM), Sonication is recommended. H ₂ O: 262.5 mg/mL (2180.78 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	8.3077 mL	41.5386 mL	83.0772 mL
5 mM	1.6615 mL	8.3077 mL	16.6154 mL
10 mM	0.8308 mL	4.1539 mL	8.3077 mL
50 mM	0.1662 mL	0.8308 mL	1.6615 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

Okusanya BO, et al. Clinical pharmacokinetic properties of magnesium sulphate in women with pre-eclampsia and eclampsia. BJOG. 2016;123(3):356-366.

Ramsey PS, et al. Magnesium sulfate as a tocolytic agent. Semin Perinatol. 2001;25(4):236-247.

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