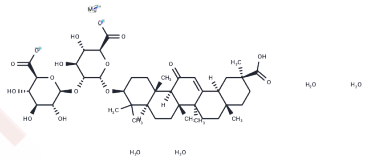
Data Sheet (Cat.No.TN7831)

TargetMol

Magnesium isoglycyrrhizinate hydrate

Chemical Properties



CAS No. : 658701-67-8

Formula: C42H68MgO20

Molecular Weight: 917.28

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 isoglycyrrhizinate hydrate (18α-Glycyrrhizic acid Magnesium hydrate) is an active ingredient derived from licorice with anti-inflammatory properties. It lowers alanine and aspartate aminotransferase activities and can be used in HIV-1 infection research.
Targets(IC50)	Caspase,NOD-like Receptor (NLR)
In vivo	Magnesium isoglycyrrhizinate hydrate (15 or 45 mg/kg.d, i.p., 18 days) was effective in inhibiting ethanol-induced spermatogenic epithelial tissue division and degeneration of supporting cells and germ cells, and was protective against oxidative damage of testis. [1] Magnesium isoglycyrrhizinate hydrate (0.40 or 0.80 mg/kg/d) exerts anti-inflammatory activity through the NLRP3 inflammatome pathway and improves chronic obstructive pulmonary disease in rats ina rat model. [2]

Solubility Information

Solubility	H2O: 20 mg/mL (21.8 mM),when pH is adjusted to 9 with NH3·H2O. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.0902 mL	5.4509 mL	10.9018 mL
5 mM	0.218 mL	1.0902 mL	2.1804 mL
10 mM	0.109 mL	0.5451 mL	1.0902 mL
50 mM	0.0218 mL	0.109 mL	0.218 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

He Y, et al. Protective effect of magnesium isoglycyrrhizinate on ethanol-induced testicular injuries in mice. J Biomed Res. 2010 Mar;24(2):153-60.
Yang Y, et al. Magnesium isoglycyrrhizinate inhibits airway inflammation in rats with chronic obstructive pulmonary disease. BMC Pulm Med. 2021 Nov 15;21(1):371.

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