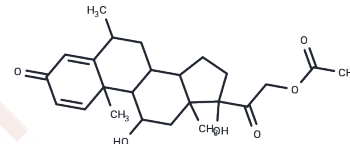


Methylprednisolone Acetate

Chemical Properties

CAS No. :	53-36-1
Formula:	C ₂₄ H ₃₂ O ₆
Molecular Weight:	416.51
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	Methylprednisolone Acetate (Depo-Medrate) has the ability to inhibit oxygen free radicals and can be used to treat acute spinal cord injuries.
Targets(IC50)	Glucocorticoid Receptor, Reactive Oxygen Species
In vivo	Typical features of early avascular necrosis (AVN) of the femoral head are induced by the combination of intramuscular injection of Methylprednisolone Acetate (30 mg/kg) and additional oral doses of 13 mg/kg for 10 consecutive days with LPS[1]

Solubility Information

Solubility	DMSO: Soluble, (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.4009 mL	12.0045 mL	24.009 mL
5 mM	0.4802 mL	2.4009 mL	4.8018 mL
10 mM	0.2401 mL	1.2005 mL	2.4009 mL
50 mM	0.048 mL	0.2401 mL	0.4802 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

Luis M Franco, et al. Immune regulation by glucocorticoids can be linked to cell type-dependent transcriptional responses. J Exp Med. 2019 Feb 4;216(2):384-406.

Ha Thi -Ngan Le, et al. A mouse model of osteonecrotic femoral head induced by methylprednisolone and liposaccharide. Biomedical Research and Therapy volume 3, Article number: 12 (2016)

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