

Dexamethasone acetate monohydrate

Chemical Properties

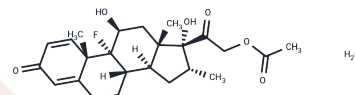
CAS No. : 55812-90-3

Formula: C₂₄H₃₃FO₇

Molecular Weight: 452.52

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	Dexamethasone acetate monohydrate is an adrenocortical steroid. It is used in the treatment of many conditions, including rheumatic problems, a number of skin diseases, asthma, severe allergies, chronic obstructive lung disease, brain swelling, croup, and antibiotics in tuberculosis.
Targets(IC50)	Glucocorticoid Receptor, Mitophagy, Others, Antibacterial, Antibiotic, Autophagy, ADC Cytotoxin, Complement System, SARS-CoV

Solubility Information

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

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.2098 mL	11.0492 mL	22.0985 mL
5 mM	0.442 mL	2.2098 mL	4.4197 mL
10 mM	0.221 mL	1.1049 mL	2.2098 mL
50 mM	0.0442 mL	0.221 mL	0.442 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

Mazet R, Choisnard L, Levilly D, Wouessidjewe D, Gèze A. Investigation of Combined Cyclodextrin and Hydrogel Formulation for Ocular Delivery of Dexamethasone Acetate by Means of Experimental Designs. *Pharmaceutics*. 2018 Dec 1;10(4). pii: E249. doi: 10.3390/pharmaceutics10040249. PubMed PMID: 30513707; PubMed Central PMCID: PMC6320851.

Shultz KJ, Kittinger JL, Czerwinski WL, Weber RA. Outcomes of Corticosteroid Treatment for Trigger Finger by Stage. *Plast Reconstr Surg*. 2018 Oct;142(4):983-990. doi: 10.1097/PRS.0000000000004761. PubMed PMID: 29994845.

Li S, Zeng YC, Peng K, Liu C, Zhang ZR, Zhang L. Design and evaluation of glomerulus mesangium-targeted PEG-PLGA nanoparticles loaded with dexamethasone acetate. *Acta Pharmacol Sin*. 2019 Jan;40(1):143-150. doi: 10.1038/s41401-018-0052-4. Epub 2018 Jun 27. PubMed PMID: 29950614; PubMed Central PMCID: PMC6318296.

Lotfy HM, Fayez YM, Tawakkol SM, Fahmy NM, Shehata MAE. Spectrophotometric resolution of the severely overlapped spectra of clotrimazole with dexamethasone in cream dosage form by mathematical manipulation steps. *Spectrochim Acta A Mol Biomol Spectrosc*. 2018 Sep 5;202:115-122. doi: 10.1016/j.saa.2018.04.072. Epub 2018 May 10. PubMed PMID: 29778704.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481