

Cortisone acetate

Chemical Properties

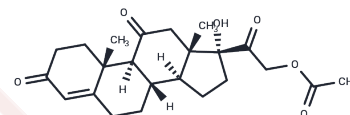
CAS No. : 50-04-4

Formula: C₂₃H₃₀O₆

Molecular Weight: 402.48

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	Cortisone Acetate is a synthetic or semisynthetic analog of the naturally occurring cortisone hormone produced by the adrenal glands with anti-inflammatory and immunomodulating properties. Cortisone acetate (NSC-49420) diffuses through the cell membrane and binds to nuclear glucocorticoid receptors. The receptor-ligand complex binds to promotor regions of certain genes and initiates RNA transcription. This results in an induction of synthesis of certain anti-inflammatory proteins while inhibiting the synthesis of certain inflammatory mediators.
Targets(IC50)	Glucocorticoid Receptor, Endogenous Metabolite
Kinase Assay	Levels of enzymatically active caspase-3 are quantified using the ApoAlert Caspase Fluorescent assay kit. Briefly, 1×10 ⁶ BC-1 PEL cells are treated with 50 μM Miltefosine, 50 μM Perifosine, or 20 nM NVP-BEZ235, as well as the respective vehicle controls. Cells are harvested and lysed 12 hours later. Equivalent micrograms of cell lysate for all samples are incubated with a fluorogenic caspase-3 substrate (DEVD-AFC). Cleavage of DEVD by caspase-3 releases AFC, the fluorescence of which is measured using a FLUOstar OPTIMA fluorometer, with excitation and emission filter wavelengths set to 400 and 505 nm, respectively[3].

Solubility Information

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

	1mg	5mg	10mg
1 mM	2.4846 mL	12.423 mL	24.846 mL
5 mM	0.4969 mL	2.4846 mL	4.9692 mL
10 mM	0.2485 mL	1.2423 mL	2.4846 mL
50 mM	0.0497 mL	0.2485 mL	0.4969 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

Grossman R, et al. Ann N Y Acad Sci. 2006, 1071:410-21.

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