

Fludrocortisone acetate

Chemical Properties

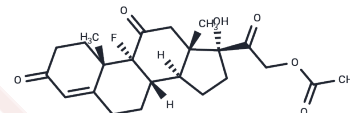
CAS No. : 514-36-3

Formula: C₂₃H₃₁F₀₆

Molecular Weight: 422.49

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	Fludrocortisone acetate (9 α -Fludrocortisone acetate), a glucocorticoid-receptor agonist, binds to cytoplasmic receptors, translocates to the nucleus, and initiates transcription of glucocorticoid-responsive genes like lipocortins to inhibit phospholipase A2 (PLA2). As the acetate salt of a synthetic fluorinated corticosteroid, it exhibits anti-inflammatory and antiallergic activities. PLA2 inhibition prevents arachidonic acid release, a precursor of eicosanoids such as prostaglandins and leukotrienes, which are key mediators in the pro-inflammatory response. As a mineralocorticoid-receptor agonist, it stimulates Na ⁺ reabsorption, water retention, and K ⁺ and H ⁺ secretion in the distal tubules and collecting ducts of the kidney.
Targets(IC50)	Glucocorticoid Receptor, Autophagy

Solubility Information

Solubility	DMSO: 45 mg/mL (106.51 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (4.73 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.3669 mL	11.8346 mL	23.6692 mL
5 mM	0.4734 mL	2.3669 mL	4.7338 mL
10 mM	0.2367 mL	1.1835 mL	2.3669 mL
50 mM	0.0473 mL	0.2367 mL	0.4734 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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