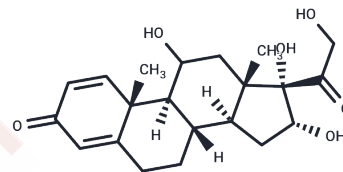


16 α -Hydroxyprednisolone

Chemical Properties

CAS No. :	13951-70-7
Formula:	C ₂₁ H ₂₈ O ₆
Molecular Weight:	376.44
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	16 α -Hydroxyprednisolone is a stereoselective metabolite of the [22(R)] epimer of the glucocorticoid budesonide.
Targets(IC50)	Drug Metabolite

Solubility Information

Solubility	DMSO: 25 mg/mL (66.41 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 (5.31 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	2.6565 mL	13.2823 mL	26.5647 mL
5 mM	0.5313 mL	2.6565 mL	5.3129 mL
10 mM	0.2656 mL	1.3282 mL	2.6565 mL
50 mM	0.0531 mL	0.2656 mL	0.5313 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

Jönsson G, Aström A, Andersson P. Budesonide is metabolized by cytochrome P450 3A (CYP3A) enzymes in human liver[J]. drug metabolism & disposition the biological fate of chemicals, 1995, 23(1):137.

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