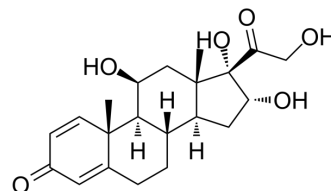


16 α -Hydroxyprednisolone

Cat. No.:	HY-117580
CAS No.:	13951-70-7
Molecular Formula:	C ₂₁ H ₂₈ O ₆
Molecular Weight:	376.44
Target:	Drug Metabolite
Pathway:	Metabolic Enzyme/Protease
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (265.65 mM; Need ultrasonic)						
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg	
				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
Please refer to the solubility information to select the appropriate solvent.							
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (6.64 mM); Clear solution						
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE- β -CD in saline) Solubility: ≥ 2.5 mg/mL (6.64 mM); Clear solution						
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (6.64 mM); Clear solution						

BIOLOGICAL ACTIVITY

Description	16 α -Hydroxyprednisolone is a stereoselective metabolite of the 22(R) epimer of the glucocorticoid budesonide via cytochrome P450 3A (CYP3A) enzymes ^{[1][2]} .
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REFERENCES

[1]. Xavier Matabosch, et al. Identification of budesonide metabolites in human urine after oral administration. Anal Bioanal Chem. 2012 Aug;404(2):325-40.

Caution: Product has not been fully validated for medical applications. For research use only.

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