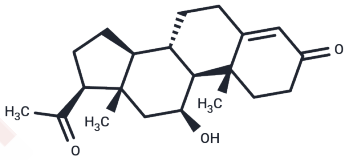
Data Sheet (Cat.No.TCA2511)

TargetMol

11Beta-hydroxyprogesterone

Chemical Properties



CAS No. : 600-57-7

Formula: C21H30O3

Molecular Weight: 330.46

Storage: Store at low temperature
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	11Beta-hydroxyprogesterone (11β-Hydroxyprogesterone) is an inhibitor of 11beta-hydroxysteroid dehydrogenase (11betaHSD) type 2, which activates the human hydrocorticosteroid receptor in COS-7 cells, and may be useful in the study of metabolism-related diseases.
Targets(IC50)	Endogenous Metabolite,Dehydrogenase

Solubility Information

Solubility	DMSO: 15 mg/mL (45.39 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 (6.05 mM),Sonication is recommended. *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.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.0261 mL	15.1304 mL	30.2608 mL
5 mM	0.6052 mL	3.0261 mL	6.0522 mL
10 mM	0.3026 mL	1.513 mL	3.0261 mL
50 mM	0.0605 mL	0.3026 mL	0.6052 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

Rafestin-Oblin ME, et al. 11beta-hydroxyprogesterone acts as a mineralocorticoid agonist in stimulating Na+ absorption in mammalian principal cortical collecting duct cells. Mol Pharmacol. 2002 Dec;62(6):1306-13.
Souness GW, et al. 11 alpha- and 11 beta-hydroxyprogesterone, potent inhibitors of 11 beta-hydroxysteroid dehydrogenase, possess hypertensinogenic activity in the rat. Hypertension. 1996 Mar;27(3 Pt 1):421-5.