# **Product** Data Sheet

# 11alpha-Hydroxyprogesterone

Cat. No.: HY-W011243

CAS No.: 80-75-1Molecular Formula:  $C_{21}H_{30}O_3$ Molecular Weight: 330.46Target: Others

Pathway: Others

Storage: Powder -20°C 3 years

4°C 2 years

In solvent -80°C 6 months

-20°C 1 month

#### **SOLVENT & SOLUBILITY**

In Vitro

DMSO: 100 mg/mL (302.61 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg
	1 mM	3.0261 mL	15.1304 mL	30.2609 mL
	5 mM	0.6052 mL	3.0261 mL	6.0522 mL
	10 mM	0.3026 mL	1.5130 mL	3.0261 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 (7.57 mM); Clear solution
- 2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (7.57 mM); Clear solution
- 3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (7.57 mM); Clear solution

## **BIOLOGICAL ACTIVITY**

Description

11alpha-Hydroxyprogesterone is the analogue of 11beta-Hydroxyprogesterone (HY-N2337), and can be used as an experimental control. 11beta-Hydroxyprogesterone is a potent inhibitors of 11 $\beta$ -Hydroxysteroid dehydrogenase; also activates human mineralocorticoid receptor in COS-7 cells with an ED<sub>50</sub> of 10 nM.

### **REFERENCES**



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