16-Dehydroprogesterone

Cat. No.: HY-128378

CAS No.: 1096-38-4

Molecular Formula: $C_{21}H_{28}O_2$

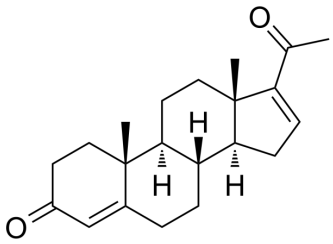
Molecular Weight: 312.45

Target: Endogenous 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 : 20 mg/mL (64.01 mM; ultrasonic and warming and heat to 60°C)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	3.2005 mL	16.0026 mL	32.0051 mL
	5 mM	0.6401 mL	3.2005 mL	6.4010 mL
	10 mM	0.3201 mL	1.6003 mL	3.2005 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: ≥ 2.08 mg/mL (6.66 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.08 mg/mL (6.66 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: 2 mg/mL (6.40 mM); Clear solution; Need ultrasonic

BIOLOGICAL ACTIVITY

Description	16-Dehydroprogesterone is a steroidal progestin.
IC_{50} & Target	Human Endogenous Metabolite

REFERENCES

[1]. Glass TL, et al. Stimulation of 16-dehydroprogesterone and progesterone reductases of Eubacterium sp. strain 144 by hemin and hydrogen or pyruvate. Appl Environ

Microbiol. 1985 May;49(5):1146-53.

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