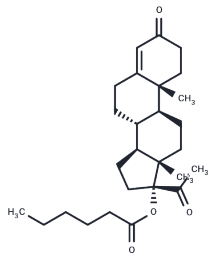
Data Sheet (Cat.No.T6858)

TargetMol

Hydroxyprogesterone caproate

Chemical Properties



CAS No. : 630-56-8

Formula: C27H40O4

Molecular Weight: 428.60

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	Hydroxyprogesterone caproate (Delalutin) is a synthetic progestational agent. It binds to and activates nuclear progesterone receptors in the reproductive system and inhibits ovulation and an alteration in the cervical mucus and endometrium.
Targets(IC50)	Others,Autophagy,Progesterone Receptor
In vivo	Hydroxyprogesterone caproate is administered to pregnant rats in order to assess the effect of intraperitoneal exposure to supranormal levels of hydroxyprogesterone caproate on the male reproductive potential in the first generation. The cauda epididymal sperm count and motility decrease significantly in rats exposed to hydroxyprogesterone caproate during embryonic development, when compared with control rats. The levels of serum testosterone decrease with an increase in follicle stimulating hormone and luteinizing hormone in adult rats exposed to hydroxyprogesterone caproate during the embryonic stage[2].

Solubility Information

Solubility	H2O: < 1 mg/mL (insoluble or slightly soluble), DMSO: 50 mg/mL (116.66 mM),Sonication is recommended. Ethanol: 79 mg/mL (184.32 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 (4.67 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	2.3332 mL	11.6659 mL	23.3318 mL
5 mM	0.4666 mL	2.3332 mL	4.6664 mL
10 mM	0.2333 mL	1.1666 mL	2.3332 mL
50 mM	0.0467 mL	0.2333 mL	0.4666 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

Schardein JL, et al. Birth Defects Res B Dev Reprod Toxicol. 2012, 95(2):160-74.
Pushpalatha T, et al. Naturwissenschaften. 2004, 91(5):242-4.