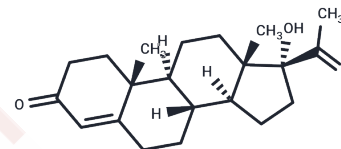


17 $\alpha$ -Hydroxyprogesterone

## Chemical Properties

CAS No. :	68-96-2
Formula:	C <sub>21</sub> H <sub>30</sub> O <sub>3</sub>
Molecular Weight:	330.46
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	17 $\alpha$ -Hydroxyprogesterone (17-OHP) is a physiological progestin that is produced during glucocorticoid and steroid hormone synthesis and is increased during the third trimester of pregnancy. Hydroxyprogesterone binds to the cytoplasmic progesterone receptors in the reproductive system and subsequently activates progesterone receptor-mediated gene expression.
Targets(IC50)	Estrogen/progesterone Receptor, Endogenous Metabolite, Progesterone Receptor
In vitro	17 $\alpha$ -Hydroxyprogesterone is an agonist of the progesterone receptor (PR) similarly to progesterone, albeit weakly in comparison[1]. It is a chemical intermediate in the biosynthesis of steroid hormones, including the androgen and estrogen sex hormones and the glucocorticoids and mineralocorticoids.
In vivo	17-Hydroxyprogesterone is a potent steroid inducer of GVBD (germinal vesicle breakdown)[3].

## Solubility Information

Solubility	DMSO: 40.08 mg/mL (121.29 mM), Sonication is recommended. Ethanol: 61 mg/mL (184.59 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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### Preparing Stock Solutions

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	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

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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

- Fatihah SN, et al. Pak J Biol Sci. 2014, 17(10):1124-9.
- BJ Attardi, et al. Am J Obstet Gynecol. 2007, 197(6):599.e1-7.
- B. Mojazi Amiri, et al. J Agric Sci Technol. 2001, 3: 199-207.

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