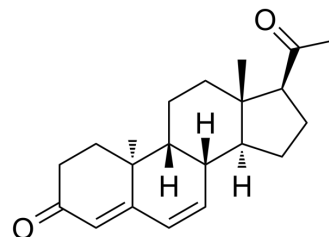


## Dydrogesterone

<b>Cat. No.:</b>	HY-B0257A		
<b>CAS No.:</b>	152-62-5		
<b>Molecular Formula:</b>	C <sub>21</sub> H <sub>28</sub> O <sub>2</sub>		
<b>Molecular Weight:</b>	312.45		
<b>Target:</b>	Progesterone Receptor		
<b>Pathway:</b>	Vitamin D Related/Nuclear Receptor		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 33.33 mg/mL (106.67 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	<b>Preparing Stock Solutions</b>	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.					
<b>In Vivo</b>	<ol style="list-style-type: none"> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 40% PEG300 &gt;&gt; 5% Tween-80 &gt;&gt; 45% saline Solubility: ≥ 2.5 mg/mL (8.00 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (8.00 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% corn oil Solubility: ≥ 2.5 mg/mL (8.00 mM); Clear solution</li> </ol>				

### BIOLOGICAL ACTIVITY

<b>Description</b>	Dydrogesterone is a potent, orally active progestogen indicated in a wide variety of gynaecological conditions related to progesterone deficiency.
<b>IC<sub>50</sub> &amp; Target</b>	Progesterone Receptor <sup>[1]</sup> .
<b>In Vitro</b>	Dydrogesterone is a potent, orally active progestogen indicated in a wide variety of gynaecological conditions related to progesterone deficiency. Although similar in molecular structure and pharmacological effects to endogenous progesterone.

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It is orally active at far lower doses. Its freedom from estrogenic, androgenic, anabolic, corticoid and other undesirable hormonal effects gives it additional benefits over most other synthetic progestogens. Dydrogesterone has also been registered as hormone replacement therapy (HRT) to counteract the negative effects of unopposed estrogen on the endometrium in women with an intact uterus. Dydrogesterone is relatively safe and well tolerated, and does not exhibit the androgenic side effects that are common with some other progestins, like medroxyprogesterone<sup>[1]</sup>.  
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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## CUSTOMER VALIDATION

- Cells. 2022, 11(3), 319.

See more customer validations on [www.MedChemExpress.com](http://www.MedChemExpress.com)

## REFERENCES

[1]. Dydrogesterone, From Wikipedia, the free encyclopedia

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**Caution: Product has not been fully validated for medical applications. For research use only.**

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