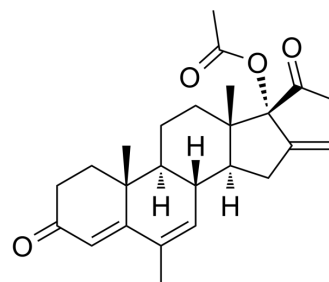


## Melengestrol acetate

<b>Cat. No.:</b>	HY-111614		
<b>CAS No.:</b>	2919-66-6		
<b>Molecular Formula:</b>	C <sub>25</sub> H <sub>32</sub> O <sub>4</sub>		
<b>Molecular Weight:</b>	396.52		
<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	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 25 mg/mL (63.05 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	<b>Preparing Stock Solutions</b>	1 mM	2.5219 mL	12.6097 mL	25.2194 mL
		5 mM	0.5044 mL	2.5219 mL	5.0439 mL
10 mM		0.2522 mL	1.2610 mL	2.5219 mL	
Please refer to the solubility information to select the appropriate solvent.					
<b>In Vivo</b>	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: 2.5 mg/mL (6.30 mM); Suspended solution; Need ultrasonic  2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (6.30 mM); Clear solution				

### BIOLOGICAL ACTIVITY

<b>Description</b>	Melengestrol acetate is a progesterone derivative, acts as an orally active corticosteroid hormone to promote endometrial proliferation, pregnancy maintenance, and delay of menstrual activity <sup>[1]</sup> . Melengestrol Acetate is used as a contraceptive agent for growth promoting effects and suppression of estrus in animals. Melengestrol acetate inhibits both the androgen-dependent and -independent prostatic tumors in vivo and can be used for cancer research <sup>[2]</sup> .
<b>In Vivo</b>	Melengestrol acetate (s.c.; 10 mg/kg; 9 days) inhibits the growth of AT3 tumors by approximately 53%. And it also causes a 54% weight reduction of the ventral prostate and a reduction of the seminal vesicles in adult male CCF1 rats <sup>[1]</sup> . Melengestrol acetate (oral administration; 10 mg/kg; 24 days) causes a 58.8% Dunning R3327-AT3 tumors growth and reduces the adrenal weight by 51.6% in rat <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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## REFERENCES

- [1]. G M Padilla, et al. Melengestrol acetate and megestrol acetate are prostatic tumor inhibiting agents. *Biochem Cell Biol.* 1990 Oct;68(10):1181-8.
- [2]. G W DUNCAN, et al. BIOLOGIC EFFECTS OF MELENGESTROL ACETATE. *Fertil Steril.* Jul-Aug 1964;15:416-32.
- [3]. <https://www.sciencedirect.com/topics/agricultural-and-biological-sciences/melengestrol-acetate>
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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