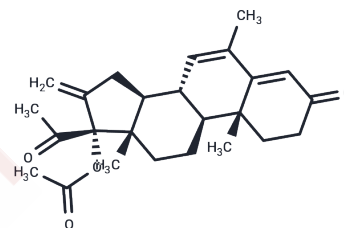


Melengestrol acetate

Chemical Properties

CAS No. :	2919-66-6
Formula:	C ₂₅ H ₃₂ O ₄
Molecular Weight:	396.52
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	Melengestrol acetate is a derivative of progesterone and acts as a corticosteroid hormone. Melengestrol acetate promotes endometrial proliferation delay of menstrual activity and pregnancy maintenance.
Targets(IC50)	Progesterone Receptor
In vivo	Subcutaneous injection of Melengestrol acetate (10 mg/kg) inhibits the growth of AT3 tumors by 53%. Melengestrol acetate reduces 54% weight of the ventral prostate and reduces the seminal vesicles [1].

Solubility Information

Solubility	DMSO: 8.75 mg/mL (22.07 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 0.5 mg/mL (1.26 mM), Sonication is recommended. <i>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.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
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	1.261 mL	2.5219 mL
50 mM	0.0504 mL	0.2522 mL	0.5044 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

G M Padilla, et al. Melengestrol acetate and megestrol acetate are prostatic tumor inhibiting agents. *Biochem Cell Biol.* 1990 Oct;68(10):1181-8.

G W DUNCAN, et al. BIOLOGIC EFFECTS OF MELENGESTROL ACETATE. *Fertil Steril.* Jul-Aug 1964;15:416-32.

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