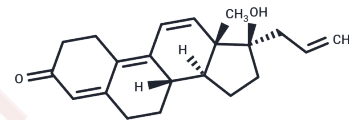


## Altrenogest

## Chemical Properties

CAS No. :	850-52-2
Formula:	C <sub>21</sub> H <sub>26</sub> O <sub>2</sub>
Molecular Weight:	310.43
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	Altrenogest (Allyltrenbolone)(A35957; RU2267), a progestogen, has structural relation with veterinary steroid trenbolone.
Targets(IC50)	Estrogen/progestogen Receptor, Progesterone Receptor
In vitro	Altrenogest is a synthetic trienic C <sub>21</sub> steroidal progestomimetic, belonging to the 19-nor-testosterone series. It is an orally active (pro)gestagen. Like all steroids, altrenogest acts by its liposolubility by penetrating the target cells where it binds to specific receptors. In veterinary medicine, altrenogest is used in gilts and mares for zootechnical purposes (oestrus synchronization).

## Solubility Information

Solubility	H <sub>2</sub> O: < 1 mg/mL (insoluble or slightly soluble), DMSO: 257.5 mg/mL (829.49 mM), Sonication is recommended. Ethanol: 2 mg/mL (6.44 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: 10 mg/mL (32.21 mM), Solution. 10% DMSO+90% Saline: < 10 mg/mL (32.21 mM), Lower concentrations may be soluble, but exact solubility limit is unknown. <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

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	1mg	5mg	10mg
1 mM	3.2213 mL	16.1067 mL	32.2134 mL
5 mM	0.6443 mL	3.2213 mL	6.4427 mL
10 mM	0.3221 mL	1.6107 mL	3.2213 mL
50 mM	0.0644 mL	0.3221 mL	0.6443 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

Squires EL, et al. J Anim Sci, 1983, 56(4), 901-910.

Guthrie HD, et al. Biol Reprod, 1988, 38(4), 750-755.

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