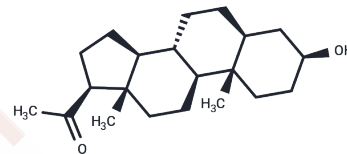


Isopregnanolone

Chemical Properties

CAS No. :	516-55-2
Formula:	C ₂₁ H ₃₄ O ₂
Molecular Weight:	318.49
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	Isopregnanolone is a pro-sleep progesterone that can interfere with the rapid tolerance of ethanol's anxiolytic effects.
Targets(IC50)	Endogenous Metabolite

Solubility Information

Solubility	DMSO: 9.52 mg/mL (29.89 mM), Sonication is recommended. Ethanol: 10 mg/mL (31.4 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: 0.95 mg/mL (2.98 mM), Suspension. <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	3.1398 mL	15.6991 mL	31.3982 mL
5 mM	0.628 mL	3.1398 mL	6.2796 mL
10 mM	0.314 mL	1.5699 mL	3.1398 mL
50 mM	0.0628 mL	0.314 mL	0.628 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

Debatin T , Barbosa A D E . Effect of isopregnanolone on rapid tolerance to the anxiolytic effect of ethanol[J].
Revista Brasileira de Psiquiatria, 2006, 28(1):18-23.

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