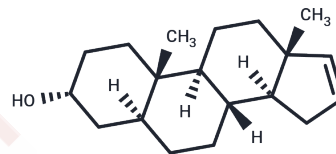


5 α -Androst-16-en-3 α -ol

Chemical Properties

CAS No. :	1153-51-1
Formula:	C19H30O
Molecular Weight:	274.448
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	5 α -Androst-16-en-3 α -ol is a steroid pheromone that has been found in boar testes and human male axillary sweat and has diverse biological activities. It enhances GABA-activated currents in primary mouse cerebellar granule cells (EC ₅₀ = 0.4 μ M). 25 α -Androst-16-en-3 α -ol (0.1-1 μ M) increases the amplitude of GABA-activated currents in HEK293 cells expressing human α 1 β 2 γ 2 and α 2 β 2 γ 2 subunit-containing GABA receptors.
Targets(IC50)	Others, GABA Receptor
In vivo	In vivo, 5 α -androst-16-en-3 α -ol (5-10 mg/kg) decreases immobility time in the forced swim test in mice. It increases time spent in the open arms of the elevated plus maze in mice, indicating anxiolytic-like activity, when administered at doses ranging from 30 to 50 mg/kg. 5 α -Androst-16-en-3 α -ol protects against seizures induced by pentylenetetrazole or electroshock in mice (ED ₅₀ s = 48.9 and 21.9 mg/kg, respectively).

Solubility Information

Solubility	DMF: 20 mg/mL (72.87 mM), Sonication is recommended. Ethanol: 30 mg/mL (109.31 mM), Sonication is recommended. DMSO: 10 mg/mL (36.44 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.6437 mL	18.2183 mL	36.4365 mL
5 mM	0.7287 mL	3.6437 mL	7.2873 mL
10 mM	0.3644 mL	1.8218 mL	3.6437 mL
50 mM	0.0729 mL	0.3644 mL	0.7287 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

Brooksbank, B.W., Brown, R., and Gustafsson, J.A. The detection of 5 α -androst-16-en-3 α -ol in human male axillary sweat. *Experientia* 30(8):864-865 (1974)

Kaminski, R.M., Marini, H., Ortinski, P.I., et al. The pheromone androstenol (5 α -androst-16-en-3 α -ol) is a neurosteroid positive modulator of GABAA receptors. *J. Pharmacol. Exp. Ther.* 317(2):694-703 (2006)

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