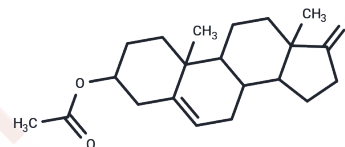


Dehydroisoandrosterone 3-acetate

Chemical Properties

CAS No. :	853-23-6
Formula:	C ₂₁ H ₃₀ O ₃
Molecular Weight:	330.46
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	Dehydroisoandrosterone 3-acetate (Prasterone acetate) is a primary C19 steroid generated by the adrenal cortex.
Targets(IC50)	Androgen Receptor
In vivo	Dehydroisoandrosterone 3-acetate implants increases aggression in a laboratory-based simulated territorial intrusion. Brains of birds implanted with Dehydroisoandrosterone 3-acetate display higher aromatase mRNA expression in the preoptic area (POA) as well as higher androgen receptor mRNA expression in the periventricular nucleus of the medial striatum (pvMSt) and ventromedial nucleus of the hypothalamus (VMH). The Dehydroisoandrosterone 3-acetate -induced increases in aromatase expression in the POA and androgen receptor expression in the pvMSt are consistent with previously reported seasonal increases in these markers associated with naturally elevated Dehydroisoandrosterone 3-acetate levels[1]. Dehydroisoandrosterone 3-acetate supplementation (10.2 mg/kg) alone significantly increases mice body weight (BW), muscle weight, testosterone level, and glycogen contents (liver and muscle) when compared with SC group[2].

Solubility Information

Solubility	DMSO: 9 mg/mL (27.23 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: 1 mg/mL (3.03 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	3.0261 mL	15.1304 mL	30.2608 mL
5 mM	0.6052 mL	3.0261 mL	6.0522 mL
10 mM	0.3026 mL	1.513 mL	3.0261 mL
50 mM	0.0605 mL	0.3026 mL	0.6052 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

- Wacker DW, et al. Dehydroepiandrosterone (DHEA) heightens aggression and increases androgen receptor and aromatase mRNA expression in the brain of a male songbird. *J Neuroendocrinol.* 2016 Nov 2.
- Chen WC, et al. Dehydroepiandrosterone Supplementation Combined with Whole-Body Vibration Training Affects Testosterone Level and Body Composition in Mice. *Int J Med Sci.* 2016 Sep 16;13(10):730-740.

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