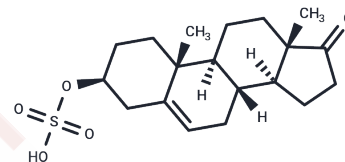


Dehydroepiandrosterone sulfate

Chemical Properties

CAS No. : 651-48-9
 Formula: C₁₉H₂₈O₅
 Molecular Weight: 368.49
 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	Dehydroepiandrosterone sulfate (PB-005) influences the migration of neurons, arborization of dendrites, and formation of new synapses.
Targets(IC50)	Others,NF-κB,GABA Receptor,Endogenous Metabolite,iGluR,PPAR,Sigma receptor
In vitro	Dehydroepiandrosterone sulfate selectively increases the length of neurites containing the dendritic marker MAP-2 and increases neuronal excitability when directly applied to septal-preoptic neurons[1].
In vivo	Chronic administration of Dehydroepiandrosterone sulfate produces a dose-dependent effect on performance. In male Sprague-Dawley rats, Dehydroepiandrosterone sulfate (5-20 mg/kg; s.c.) is significantly effective in improving latency to reach the platform[3].

Solubility Information

Solubility	DMSO: 121.25 mg/mL (329.05 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: 3.3 mg/mL (8.96 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	2.7138 mL	13.5689 mL	27.1378 mL
5 mM	0.5428 mL	2.7138 mL	5.4276 mL
10 mM	0.2714 mL	1.3569 mL	2.7138 mL
50 mM	0.0543 mL	0.2714 mL	0.5428 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

- do Vale S, et al. Dehydroepiandrosterone (DHEA) and dehydroepiandrosterone-sulfate (DHEAS) and emotional processing - A behavioral and electrophysiological approach. *Horm Behav.* 2015 Jul;73:94-103.
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- C R Parker Jr, et al. Dehydroepiandrosterone and dehydroepiandrosterone sulfate production in the human adrenal during development and aging. *Steroids.* 1999 Sep;64(9):640-7.
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