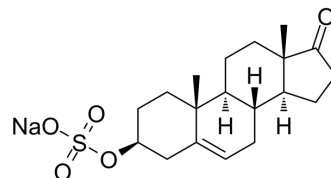


## Dehydroepiandrosterone sulfate sodium salt

<b>Cat. No.:</b>	HY-B0765
<b>CAS No.:</b>	1099-87-2
<b>Molecular Formula:</b>	C <sub>19</sub> H <sub>27</sub> NaO <sub>5</sub> S
<b>Molecular Weight:</b>	390.47
<b>Target:</b>	Endogenous Metabolite
<b>Pathway:</b>	Metabolic Enzyme/Protease
<b>Storage:</b>	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 100 mg/mL (256.10 mM; Need ultrasonic)					
	H <sub>2</sub> O : 10 mg/mL (25.61 mM; Need ultrasonic)					
	<b>Preparing Stock Solutions</b>	<b>Solvent</b>	<b>Mass</b>	<b>1 mg</b>	<b>5 mg</b>	<b>10 mg</b>
		<b>Concentration</b>				
		<b>1 mM</b>		2.5610 mL	12.8051 mL	25.6102 mL
<b>5 mM</b>			0.5122 mL	2.5610 mL	5.1220 mL	
	<b>10 mM</b>		0.2561 mL	1.2805 mL	2.5610 mL	
Please refer to the solubility information to select the appropriate solvent.						
<b>In Vivo</b>	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.08 mg/mL (5.33 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (5.33 mM); Clear solution					
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (5.33 mM); Clear solution					

### BIOLOGICAL ACTIVITY

<b>Description</b>	Dehydroepiandrosterone sulfate sodium salt (DHEAS) is the most abundant circulating steroid in human. Dehydroepiandrosterone sulfate sodium salt (DHEAS) affects steroid hormone biosynthesis on a molecular level resulting in an increased formation of pregnenolone <sup>[1]</sup> .
<b>IC<sub>50</sub> &amp; Target</b>	Human Endogenous Metabolite

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## CUSTOMER VALIDATION

- Nat Chem Biol. 2022 Aug 18.
- Research Square Print. 2022 May.

See more customer validations on [www.MedChemExpress.com](http://www.MedChemExpress.com)

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## REFERENCES

[1]. Jens Neunzig, et al. Dehydroepiandrosterone Sulfate (DHEAS) Stimulates the First Step in the Biosynthesis of Steroid Hormones. PLoS One. 2014 Feb 21;9(2):e89727.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

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