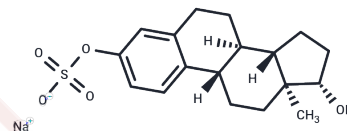


17 $\beta$ -Estradiol sulfate sodium

## Chemical Properties

CAS No. :	4999-79-5
Formula:	C <sub>18</sub> H <sub>23</sub> NaO <sub>5</sub> S
Molecular Weight:	374.43
Storage:	Keep away from moisture Powder: -20°C for 3 years   In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



## Biological Description

Description	17 $\beta$ -Estradiol sulfate sodium (17 $\beta$ -Estradiol 3-sulfate sodium) is a neuroactive estrogen with vasoprotective properties that inhibits the growth of <i>Neisseria brasiliensis</i> and disrupts aquatic ecosystems.
Targets(IC50)	GABA Receptor, Antibiotic
In vitro	At 17 $\beta$ -Estradiol sulfate sodium physiological concentrations (10 and 100 nM for 24 h), both ER $\alpha$ and ER $\beta$ receptors, and their protein target pS2, increased by 0.6-3.5 times vs.

## Solubility Information

Solubility	Methanol: 5 mg/mL (13.35 mM), Sonication and heating are recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.6707 mL	13.3536 mL	26.7073 mL
5 mM	0.5341 mL	2.6707 mL	5.3415 mL
10 mM	0.2671 mL	1.3354 mL	2.6707 mL
50 mM	0.0534 mL	0.2671 mL	0.5341 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

Pacheco-Velázquez SC, et al. 17- $\beta$  Estradiol up-regulates energy metabolic pathways, cellular proliferation and tumor invasiveness in ER+ breast cancer spheroids. *Front Oncol.* 2022 Nov 7;12:1018137.

Schneider C, et al. A novel enzyme-linked immunosorbent assay for ethynylestradiol using a long-chain biotinylated EE2 derivative. *Steroids.* 2004;69(4):245-253.

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