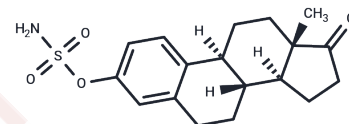


## Estrone O-sulfamate

## Chemical Properties

CAS No. :	148672-09-7
Formula:	C <sub>18</sub> H <sub>23</sub> NO <sub>4</sub> S
Molecular Weight:	349.44
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	Estrone O-sulfamate (Estrone 3-O-sulfamate) is a potent inhibitor of steroid sulfatase (STS), showing IC <sub>50</sub> values of 18 nM as a placental microsomal inhibitor (P.M.) and 0.83 nM in MCF-7 cells. Estrone O-sulfamate can be used to study cancer.
Targets(IC <sub>50</sub> )	Others
In vitro	In both placental microsome (P.M.) preparations and MCF-7 cells, Estrone O-sulfamate (Estrone 3-O-sulfamate) exhibits inhibitory activity against STS, with IC <sub>50</sub> values of 18 nM and 0.83 nM, respectively[1].

## Solubility Information

Solubility	DMSO: 55 mg/mL (157.39 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	2.8617 mL	14.3086 mL	28.6172 mL
5 mM	0.5723 mL	2.8617 mL	5.7234 mL
10 mM	0.2862 mL	1.4309 mL	2.8617 mL
50 mM	0.0572 mL	0.2862 mL	0.5723 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

L W Lawrence Woo, et al. Synthesis and evaluation of analogues of estrone-3-O-sulfamate as potent steroid sulfatase inhibitors. Bioorg Med Chem. 2012 Apr 15;20(8):2506-19.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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