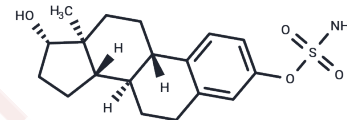


Estradiol 3-sulfamate

Chemical Properties

CAS No. :	172377-52-5
Formula:	C ₁₈ H ₂₅ NO ₄ S
Molecular Weight:	351.46
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	Estradiol 3-sulfamate (BLE 00084) is an orally active and highly potent steroidal estrone sulfatase (ES) inhibitor. Estradiol 3-sulfamate has a K _i value of 73 nM for ES in human placental microsomes and can be used in the study of breast cancer.
Targets(IC ₅₀)	Estrogen Receptor/ERR,Others
In vitro	Compared to the lead compound EMATE, Estradiol 3-sulfamate exhibits superior inhibitory activity against estrone sulfatase[1].
In vivo	Estradiol 3-sulfamate readily transforms into its metabolite EMATE in the gut, making it a more effective STS inhibitor[2].

Solubility Information

Solubility	DMSO: 50 mg/mL (142.26 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: 2 mg/mL (5.69 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	2.8453 mL	14.2264 mL	28.4527 mL
5 mM	0.5691 mL	2.8453 mL	5.6905 mL
10 mM	0.2845 mL	1.4226 mL	2.8453 mL
50 mM	0.0569 mL	0.2845 mL	0.5691 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

Numazawa M, et al. Inhibition of estrone sulfatase by aromatase inhibitor-based estrogen 3-sulfamates. *Steroids*. 2006 May;71(5):371-9.

Pohl O, et al. Synergistic effects of E2MATE and norethindrone acetate on steroid sulfatase inhibition: a randomized phase I proof-of-principle clinical study in women of reproductive age. *Reprod Sci*. 2014 Oct;21(10):1256-65.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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