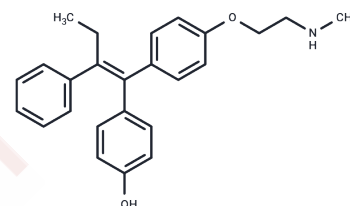


Endoxifen

Chemical Properties

CAS No. :	110025-28-0
Formula:	C ₂₅ H ₂₇ NO ₂
Molecular Weight:	373.49
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	(E/Z)-Endoxifen ((E/Z)-Endoxifen) is an active metabolite of tamoxifen produced by the sequential action of cytochrome P450 (CYP) isoforms, including CYP2D6. It is a strong anti-estrogen, as it has an approximately 100-fold greater affinity for estrogen receptors than tamoxifen. As the efficient conversion of tamoxifen to endoxifen depends on CYP2D6, polymorphisms in this CYP isoform can impact the effectiveness of TMX treatment.
Targets(IC50)	Estrogen Receptor/ERR,Aromatase,Estrogen/progestogen Receptor,Parasite, Cytochromes P450,Drug Metabolite

Solubility Information

Solubility	DMSO: 27.5 mg/mL (73.63 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	2.6774 mL	13.3872 mL	26.7745 mL
5 mM	0.5355 mL	2.6774 mL	5.3549 mL
10 mM	0.2677 mL	1.3387 mL	2.6774 mL
50 mM	0.0535 mL	0.2677 mL	0.5355 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

Goetz MP, et al. Tamoxifen, endoxifen, and CYP2D6: the rules for evaluating a predictive factor. *Oncology (Williston Park)*. 2009 Dec;23(14):1233-4, 1236.

Wang K, Chen Y, Gao S, et al. Norlichexanthone purified from plant endophyte prevents postmenopausal osteoporosis by targeting ER α to inhibit RANKL signaling[J]. *Acta Pharmaceutica Sinica B*. 2021, 11(2): 442-455

Wu X, et al. The tamoxifen metabolite, endoxifen, is a potent antiestrogen that targets estrogen receptor alpha for degradation in breast cancer cells. *Cancer Res*. 2009 Mar 1;69(5):1722-7.

Wang K, Chen Y, Gao S, et al Norlichexanthone purified from plant endophyte prevents postmenopausal osteoporosis by targeting ER α to inhibit RANKL signaling. *Acta Pharmaceutica Sinica B*. 2020

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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