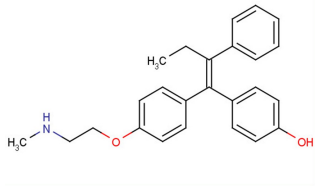
Data Sheet (Cat.No.T11200)

TargetMol
A DRUG SCREENING EXPERT

Endoxifen E-isomer

Chemical Properties



CAS No.:	114828-90-9
Formula:	C25H27NO2
Molecular Weight:	373.49
Appearance:	N/A
Storage:	0-4℃ for short term (days to weeks), or -20℃ for long term (months).

Biological Description

Description	(Z)-Endoxifen is an active metabolite generated via actions of CYP3A4/5 and CYP2D6, is a more potent selective estrogen receptor modulator (SERM) than Tamoxifen. Endoxifen E-isomer is the E-isomer of (Z)-Endoxifen.
Targets(IC_{50})	Others: None
In vitro	(E)-Endoxifen is identified as the primary degradant.Endoxifen exists as the potently anti-estrogenic (Z)-isomer and the lesser known (E)-isomer. It is assumed that (E)-Endoxifen, structurally related to (E)-4-OH-tamoxifen, have similar pharmacological properties. The (E)-isomer is an impurity in (Z)-Endoxifen drug substance and increases under certain storage conditions.

Solubility Information

Solubility	DMSO: 32 mg/mL (85.68 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.677 mL	13.387 mL	26.774 mL
5 mM	0.535 mL	2.677 mL	5.355 mL
10 mM	0.268 mL	1.339 mL	2.677 mL
50 mM	0.054 mL	0.268 mL	0.535 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 ℃ for 6 months; - 20 ℃ for 1 month. Please use it as soon as possible.

Reference

1. Elkins P, et al. Characterization of the isomeric configuration and impurities of (Z)-Endoxifen by 2D NMR, high resolution LC-MS, and quantitative HPLC analysis. J Pharm Biomed Anal. 2014 Jan;88:174-9.

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