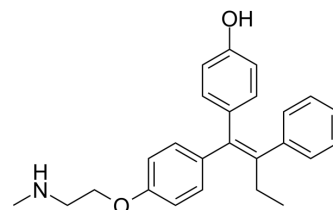


Endoxifen (E-isomer)

Cat. No.:	HY-18719D		
CAS No.:	114828-90-9		
Molecular Formula:	C ₂₅ H ₂₇ NO ₂		
Molecular Weight:	373.49		
Target:	Estrogen Receptor/ERR		
Pathway:	Vitamin D Related/Nuclear Receptor		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



SOLVENT & SOLUBILITY

In Vitro

DMSO : 50 mg/mL (133.87 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	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

Please refer to the solubility information to select the appropriate solvent.

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: 1.25 mg/mL (3.35 mM); Clear solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: 1.25 mg/mL (3.35 mM); Suspended solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: 1.25 mg/mL (3.35 mM); Clear solution; Need ultrasonic

BIOLOGICAL ACTIVITY

Description

Endoxifen E-isomer (E-Endoxifen), an E-isomer of Endoxifen, is an impurity in Endoxifen Z-isomer agent substance. Endoxifen E-isomer exhibits antiestrogenic effects^{[1][2]}.

In Vitro

Endoxifen E-isomer (1-1000 nM; 12 h) inhibits PGR gene expression in E₂-induced MCF-7 cells^[2]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [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.
- [2]. Zheng Y, et, al. Elimination of antiestrogenic effects of active tamoxifen metabolites by glucuronidation. Drug Metab Dispos. 2007 Oct;35(10):1942-8.
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Caution: Product has not been fully validated for medical applications. For research use only.

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