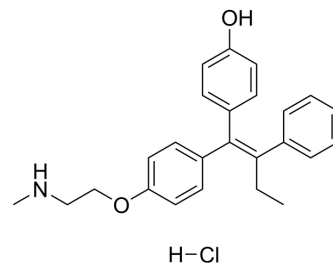


Endoxifen E-isomer hydrochloride

Cat. No.:	HY-18719C
CAS No.:	1197194-61-8
Molecular Formula:	C ₂₅ H ₂₈ ClNO ₂
Molecular Weight:	409.95
Target:	Estrogen Receptor/ERR
Pathway:	Vitamin D Related/Nuclear Receptor
Storage:	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 30 mg/mL (73.18 mM)
* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	2.4393 mL	12.1966 mL	24.3932 mL
	5 mM	0.4879 mL	2.4393 mL	4.8786 mL
	10 mM	0.2439 mL	1.2197 mL	2.4393 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: ≥ 2.5 mg/mL (6.10 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.5 mg/mL (6.10 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.5 mg/mL (6.10 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Endoxifen E-isomer hydrochloride (E-Endoxifen hydrochloride), an E-isomer of Endoxifen, is an impurity in Endoxifen Z-isomer agent substance. Endoxifen E-isomer hydrochloride 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.

Caution: Product has not been fully validated for medical applications. For research use only.

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