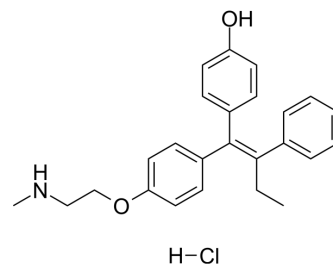


## Endoxifen E-isomer hydrochloride

Cat. No.:	HY-18719C
CAS No.:	1197194-61-8
Molecular Formula:	C <sub>25</sub> H <sub>28</sub> ClNO <sub>2</sub>
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	<div>Solvent</div> <div>Concentration</div>	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

1. 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

2. 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

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

### REFERENCES

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[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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