

Endoxifen (E-isomer)

Chemical Properties

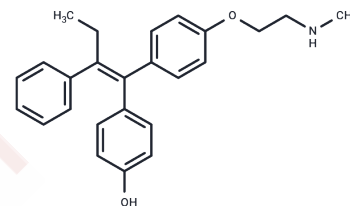
CAS No. : 114828-90-9

Formula: C₂₅H₂₇NO₂

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	Endoxifen E-isomer (E-Endoxifen) is the E-isomer of (Z)-Endoxifen. Endoxifen E-isomer has antiestrogenic effects.
Targets(IC50)	Estrogen Receptor/ERR
In vitro	Endoxifen exists as the potently anti-estrogenic (Z)-isomer and the lesser-known (E)-isomer. (E)-Endoxifen is identified as the primary degradant. The (E)-isomer is an impurity in (Z)-Endoxifen drug substance and increases under certain storage conditions.

Solubility Information

Solubility	DMSO: 30 mg/mL (80.32 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 1 mg/mL (2.68 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

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

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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