

Product Data Sheet

Product Name: Endoxifen E-isomer

Cat. No.: GC35988

Chemical Properties

Cas. No. 114828-90-9

SMILES OC1=CC=C(/C(C2=CC=C(OCCNC)C=C2)=C(C3=CC=CC=C3)/CC)C=C1

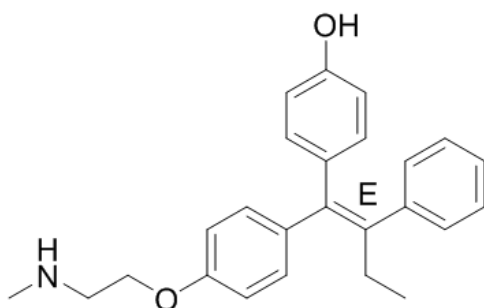
Formula $C_{25}H_{27}NO_2$ M.Wt 373.49

Solubility DMSO: ≥ 32 mg/mL (85.68 mM) Storage Store at $-20^{\circ}C$

General tips For obtaining a higher solubility, please warm the tube at $37^{\circ}C$ and shake it in the ultrasonic bath for a while. Stock solution can be stored below $-20^{\circ}C$ for several months.

Shipping Condition Evaluation sample solution: ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure



Background

Endoxifen E-isomer is the E-isomer of (Z)-Endoxifen. (Z)-Endoxifen, an active metabolite generated via actions of CYP3A4/5 and CYP2D6, is a more potent selective estrogen receptor modulator (SERM) than Tamoxifen.

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

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Endoxifen exists as the potentially 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. (E)-Endoxifen is identified as the primary degradant[1].

[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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