

Product Data Sheet

Product Name: Droloxifene

Cat. No.: GC39707

Chemical Properties

Cas. No. 82413-20-5

SMILES OC1=CC=CC(/C(C2=CC=C(OCCN(C)C)C=C2)=C(C3=CC=CC=C3)\CC)=C1

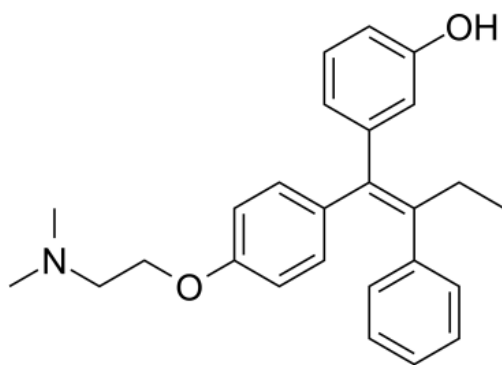
Formula $C_{26}H_{29}NO_2$ M.Wt 387.51

Solubility DMF: 30 mg/ml, DMF:PBS (pH 7.2) (1:3): 0.25 mg/ml, DMSO: 15 mg/ml, Ethanol: 1 mg/ml
Storage Store at -20°C

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

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

Structure



Background

Droloxifene, a Tamoxifen derivative, is an orally active and selective estrogen receptor modulator. Droloxifene shows antiestrogenic and anti-implantation effects. Droloxifene induces p53 expression and apoptosis in MCF-7 cells. Droloxifene prevents bone loss in ovariectomized rats [1][2][3].

[1]. Herrington DM, et al. Cardiovascular effects of droloxifene, a new selective estrogen receptor

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

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modulator, in healthy postmenopausal women. *Arterioscler Thromb Vasc Biol.* 2000 Jun;20(6):1606-12. [2]. Grasser WA, et al. Common mechanism for the estrogen agonist and antagonist activities of droloxifene. *J Cell Biochem.* 1997 May;65(2):159-71. [3]. Ke HZ, et al. Droloxifene, a new estrogen antagonist/agonist, prevents bone loss in ovariectomized rats. *Endocrinology.* 1995 Jun;136(6):2435-41. [4]. Huang Y, et al. Anti-implantation effect of droloxifene in rats and its relationship with anti-estrogenic activity. *Acta Pharmacol Sin.* 2005 Oct;26(10):1243-7.

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