Zuclomiphene-d_4 citrate

Cat. No.: HY-B1617AS

CAS No.: 2714316-71-7

Molecular Formula: $C_{32}H_{32}D_4ClNO_8$

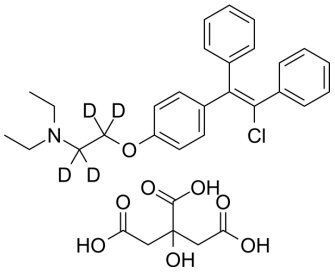
Molecular Weight: 602.11

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 : 100 mg/mL (166.08 mM; Need ultrasonic)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	1.6608 mL	8.3041 mL	16.6083 mL
	5 mM	0.3322 mL	1.6608 mL	3.3217 mL
	10 mM	0.1661 mL	0.8304 mL	1.6608 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

Zuclomiphene-d_4 (citrate) is a deuterium labeled Zuclomiphene citrate. Zuclomiphene citrate has an antiestrogenic effect and can inhibit the secretion of luteinizing hormone (LH) more than the trans isomer. Zuclomiphene citrate is also an orally active hypocholesterolemic agent[1][2][3][4].

REFERENCES

[1]. Fontenot GK, et al. Differential effects of isomers of clomiphene citrate on reproductive tissues in male mice. BJU Int. 2016 Feb;117(2):344-50.

[2]. Mikkelson TJ, et al. Single-dose pharmacokinetics of clomiphene citrate in normal volunteers. Fertil Steril. 1986 Sep;46(3):392-6.

[3]. Sutherland RL. Estrogen antagonists in chick oviduct: antagonist activity of eight synthetic triphenylethylene derivatives and their interactions with cytoplasmic and nuclear estrogen receptors. Endocrinology. 1981 Dec;109(6):2061-8.

[4]. Ramsey RB, et al. The biochemical and morphological response of hydrolytic enzymes in the developing brain to hypocholesterolemic agents. Acta Neuropathol. 1980;49(2):89-94.

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

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