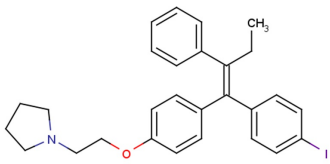
Data Sheet (Cat.No.T14883)

TargetMol
A DRUG SCREENING EXPERT

Idoxifene

Chemical Properties



CAS No.:	116057-75-1
Formula:	C28H30INO
Molecular Weight:	523.45
Appearance:	N/A
Storage:	0-4℃ for short term (days to weeks), or -20℃ for long term (months).

Biological Description

Description	Idoxifene is a tissue-specific selective estrogen receptor modulator.
Targets(IC_{50})	Estrogen receptor: None
In vitro	Idoxifene acts in the bone as an estrogen agonist for osteoblasts and shows negligible agonist activity in human endometrial cells. Idoxifene and E2 protect hepatocytes from inflammatory cell injury by inhibiting activation of the NF-κB proinflammatory transcription factor [2]. Idoxifene possesses the protective roles in vascular smooth muscle cells by blunting the angiotensin II-induced production of reactive oxygen species. Idoxifene evidently suppresses HSC activation, inhibits culture-activated HSC proliferation in a dose-dependent manner, and induces culture-activated HSC apoptosis in a time-dependent manner [1].
In vivo	Idoxifene at doses of over 0.1 mg/kg significantly reduces the hepatic levels of collagen and MDA in the DMN model in a dose-dependent manner. Animals receive daily intraperitoneal injections of Estradiol (0.5 mg/kg) and an oral gavage of Idoxifene (0.02, 0.1, and 0.5 mg/kg) for 3 days after Dimethylnitrosamine (DMN) treatment. Although Idoxifene and E2 are administered by different routes, i.e., by oral ingestion and intraperitoneal injection, respectively. However, the antifibrotic effect of a dose of 0.5 mg/kg of Idoxifene is somewhat greater than that of the same dose of E2 [2].

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.91 mL	9.552 mL	19.104 mL
5 mM	0.382 mL	1.91 mL	3.821 mL
10 mM	0.191 mL	0.955 mL	1.91 mL
50 mM	0.038 mL	0.191 mL	0.382 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 ℃ for 6 months; - 20 ℃ for 1 month. Please use it as soon as possible.

Reference

1. Zhou YJ, et al. Inhibitory effects of idoxifene on hepatic fibrosis in rats. Acta Pharmacol Sin. 2005 May;26(5):581-6.

2. Lu G, et al. Antioxidant and antiapoptotic activities of idoxifene and estradiol in hepatic fibrosis in rats. Life Sci. 2004 Jan 2;74(7):897-907.

Tel:781-999-4286 E-mail:info@targetmol.com Address:36 Washington Street,Wellesley Hills,MA 02481