

## Idoxifene

## Chemical Properties

CAS No. : 116057-75-1

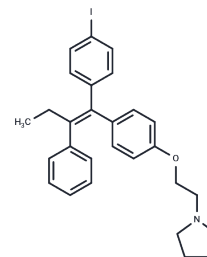
Formula: C<sub>28</sub>H<sub>30</sub>INO

Molecular Weight: 523.45

Storage: Keep away from moisture, Keep away from direct sunlight

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	Idoxifene (CB7432) is a selective and tissue-specific estrogen receptor modulator (SERM) that reduces collagen and malondialdehyde (MDA) levels in rat liver, exhibiting anti-fibrotic effects.
Targets(IC50)	Estrogen Receptor/ERR
In vitro	In vascular smooth muscle cells, Idoxifene inhibits Angiotensin II-induced reactive oxygen species (ROS) production [1]. In cultured activated hepatic stellate cells, Idoxifene dose-dependently inhibits activation and proliferation while time-dependently inducing apoptosis [1]. Idoxifene acts as an estrogen receptor agonist on osteoblasts in bone and exhibits weak agonist activity in human endometrial cells. Idoxifene and estradiol (E2) protect hepatocytes from inflammatory cell damage by inhibiting NF-κB activation [2].
In vivo	Following DMN treatment, rats administered daily intraperitoneal estradiol (0.5 mg/kg) alongside Idoxifene (0.1 and 0.5 mg/kg; oral) for 3 days exhibited dose-dependent reductions in liver collagen and malondialdehyde (MDA) levels, demonstrating antifibrotic effects [2].

## Solubility Information

Solubility	DMSO: 40 mg/mL (76.42 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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### Preparing Stock Solutions

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	1mg	5mg	10mg
1 mM	1.9104 mL	9.552 mL	19.104 mL
5 mM	0.3821 mL	1.9104 mL	3.8208 mL
10 mM	0.191 mL	0.9552 mL	1.9104 mL
50 mM	0.0382 mL	0.191 mL	0.3821 mL

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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

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

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