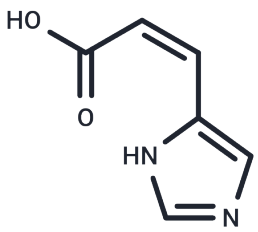
Data Sheet (Cat.No.T10824)

TargetMol

cis-Urocanic acid

Chemical Properties



CAS No. : 7699-35-6

Formula: C6H6N2O2

Molecular Weight: 138.12

Appearance: no data available

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Biological Description

Description	cis-Urocanic acid ((E)-Urocanic acid) is a 5-HT2A receptor agonist (Kd: 4.6 nM). It is an immune modulator that induces immunosuppression by binding to the 5-HT2A receptor.
Targets(IC50)	5-HT Receptor
In vitro	Treatment with 100 μg/mL cis-Urocanic acid completely suppresses IL-6 and IL-8 secretion, decreases caspase-3 activity, and improves cell viability against UV-B irradiation, with no significant effects on IL-6 or IL-8 secretion, caspase-3 activity, or viability in non-irradiated cells in both cell types [1].

Solubility Information

Solubility	H2O: 40 mg/mL (289.6 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	7.2401 mL	36.2004 mL	72.4008 mL
5 mM	1.448 mL	7.2401 mL	14.4802 mL
10 mM	0.724 mL	3.620 mL	7.2401 mL
50 mM	0.1448 mL	0.724 mL	1.448 mL

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.

Reference

Walterscheid JP, et al. Cis-urocanic acid, a sunlight-induced immunosuppressive factor, activates immune suppression via the 5-HT2A receptor. Proc Natl Acad Sci U S A. 2006 Nov 14;103(46):17420-5.

Viiri J, et al. Cis-urocanic acid suppresses UV-B-induced interleukin-6 and -8 secretion and cytotoxicity in human corneal and conjunctival epithelial cells in vitro. Mol Vis. 2009 Sep 8;15:1799-805.

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