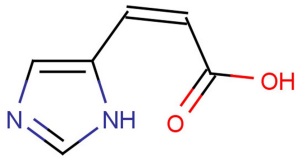
Data Sheet (Cat.No.T10824)

TargetMol
A DRUG SCREENING EXPERT

cis-Urocanic acid

Chemical Properties



CAS No.:	7699-35-6
Formula:	C6H6N2O2
Molecular Weight:	138.12
Appearance:	N/A
Storage:	0-4℃ for short term (days to weeks), or -20℃ for long term (months).

Biological Description

Description	cis-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(IC_{50})	5-HT2A Receptor: None
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. No significant effects on IL-6 or IL-8 secretion, caspase-3 activity, or viability of the non-irradiated cells are observed with 100 μg/mL cis-Urocanic acid in both cell types [1].

Solubility Information

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

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	7.24 mL	36.2 mL	72.401 mL
5 mM	1.448 mL	7.24 mL	14.48 mL
10 mM	0.724 mL	3.62 mL	7.24 mL
50 mM	0.145 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. 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. 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.
2. 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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Tel:781-999-4286 E-mail:info@targetmol.com Address:36 Washington Street,Wellesley Hills,MA 02481