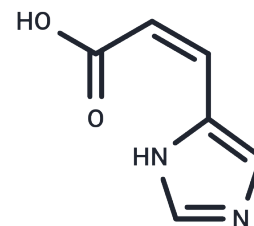


cis-Urocanic acid

Chemical Properties

CAS No. :	7699-35-6
Formula:	C ₆ H ₆ N ₂ O ₂
Molecular Weight:	138.12
Storage:	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	cis-Urocanic acid ((E)-Urocanic acid) is a 5-HT _{2A} receptor agonist (K _d : 4.6 nM). It is an immune modulator that induces immunosuppression by binding to the 5-HT _{2A} receptor.
Targets(IC ₅₀)	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	H ₂ O: 41.7 mg/mL (301.91 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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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.

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

Walterscheid JP, et al. Cis-urocanic acid, a sunlight-induced immunosuppressive factor, activates immune suppression via the 5-HT_{2A} 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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