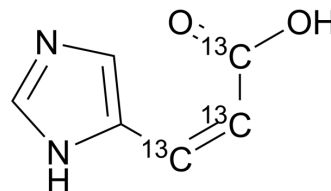


cis-Urocanic acid-¹³C₃

Cat. No.:	HY-113008AS
Molecular Formula:	C ₃ ¹³ C ₃ H ₄ N ₂ O ₂
Molecular Weight:	139.09
Target:	5-HT Receptor; Isotope-Labeled Compounds
Pathway:	GPCR/G Protein; Neuronal Signaling; Others
Storage:	-20°C, stored under nitrogen * In solvent : -80°C, 6 months; -20°C, 1 month (stored under nitrogen)



SOLVENT & SOLUBILITY

In Vitro H₂O : 50 mg/mL (359.48 mM; Need ultrasonic and warming)

Concentration	Mass			
	1 mg	5 mg	10 mg	
1 mM	7.1896 mL	35.9479 mL	71.8959 mL	
5 mM	1.4379 mL	7.1896 mL	14.3792 mL	
10 mM	0.7190 mL	3.5948 mL	7.1896 mL	

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description cis-Urocanic acid-¹³C₃ is the ¹³C-labeled cis-Urocanic acid. cis-Urocanic acid is a 5-HT_{2A} receptor agonist. cis-Urocanic acid binds to 5-HT receptor with relatively high affinity (K_d=4.6 nM). cis-Urocanic acid is an immune modulator that induces immunosuppression by binding to the 5-HT_{2A} receptor[1].

In Vitro Stable heavy isotopes of hydrogen, carbon, and other elements have been incorporated into drug molecules, largely as tracers for quantitation during the drug development process. Deuteration has gained attention because of its potential to affect the pharmacokinetic and metabolic profiles of drugs^[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother*. 2019;53(2):211-216.
- [2]. 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.

[3]. 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.

Caution: Product has not been fully validated for medical applications. For research use only.

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