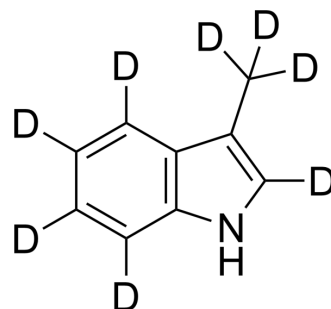


## Skatole-d<sub>8</sub>

<b>Cat. No.:</b>	HY-W007355S1
<b>CAS No.:</b>	697807-03-7
<b>Molecular Formula:</b>	C <sub>9</sub> HD <sub>8</sub> N
<b>Molecular Weight:</b>	139.22
<b>Target:</b>	p38 MAPK; Fungal; Bacterial; Autophagy; Aryl Hydrocarbon Receptor; Endogenous Metabolite; Isotope-Labeled Compounds
<b>Pathway:</b>	MAPK/ERK Pathway; Anti-infection; Autophagy; Immunology/Inflammation; Metabolic Enzyme/Protease; Others
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 100 mg/mL (718.29 mM; Need ultrasonic and warming)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	7.1829 mL	35.9144 mL	71.8288 mL
	5 mM	1.4366 mL	7.1829 mL	14.3658 mL
	10 mM	0.7183 mL	3.5914 mL	7.1829 mL

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

### BIOLOGICAL ACTIVITY

#### Description

Skatole-d<sub>8</sub> is the deuterium labeled Skatole. Skatole is produced by intestinal bacteria, regulates intestinal epithelial cellular functions through activating aryl hydrocarbon receptors and p38[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<sup>[1]</sup>.

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]. Kurata K, et al. Skatole regulates intestinal epithelial cellular functions through activating aryl hydrocarbon receptors and p38. *Biochem Biophys Res Commun.* 2019 Mar 19;510(4):649-655.

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

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