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Produktinformation



Forschungsprodukte & Biochemikalien



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Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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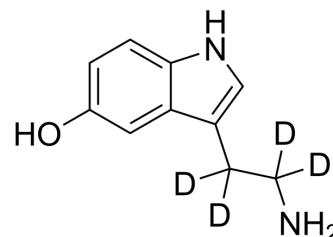
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Serotonin-d₄

Cat. No.:	HY-B1473AS
CAS No.:	58264-95-2
Molecular Formula:	C ₁₀ H ₈ D ₄ N ₂ O
Molecular Weight:	180.24
Target:	COMT; 5-HT Receptor; Endogenous Metabolite; Isotope-Labeled Compounds
Pathway:	Metabolic Enzyme/Protease; Neuronal Signaling; GPCR/G Protein; Others
Storage:	4°C, stored under nitrogen * In solvent : -80°C, 6 months; -20°C, 1 month (stored under nitrogen)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (554.82 mM; Need ultrasonic)				
	Preparing Stock Solutions	Solvent	Mass	1 mg	5 mg
		Concentration		10 mg	
		1 mM	5.5482 mL	27.7408 mL	55.4816 mL
		5 mM	1.1096 mL	5.5482 mL	11.0963 mL
		10 mM	0.5548 mL	2.7741 mL	5.5482 mL
Please refer to the solubility information to select the appropriate solvent.					

BIOLOGICAL ACTIVITY

Description	Serotonin-d ₄ is deuterium labeled Serotonin. Serotonin is a monoamine neurotransmitter in the CNS and an endogenous 5-HT receptor agonist. Serotonin is also a catechol O-methyltransferase (COMT) inhibitor with a K _i of 44 μM.
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]. Shajib MS, et al. Interleukin 13 and serotonin: linking the immune and endocrine systems in murine models of intestinal inflammation. PLoS One. 2013 Aug 28;8(8):e72774.
- [3]. Tsao D, et al. Serotonin-induced hypersensitivity via inhibition of catechol O-methyltransferase activity. Mol Pain. 2012 Apr 13;8:25.

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

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