



SZABO SCANDIC

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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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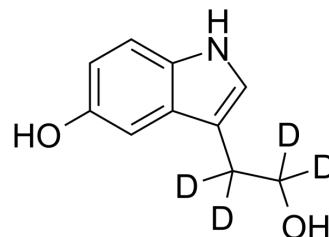
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5-Hydroxytryptophol-d₄

| | | | |
|---------------------------|---|-------|----------|
| Cat. No.: | HY-W041019S | | |
| CAS No.: | 66640-87-7 | | |
| Molecular Formula: | C ₁₀ H ₇ D ₄ NO ₂ | | |
| Molecular Weight: | 181.22 | | |
| Target: | Endogenous Metabolite | | |
| Pathway: | Metabolic Enzyme/Protease | | |
| Storage: | Powder | -20°C | 3 years |
| | In solvent | -80°C | 6 months |
| | | -20°C | 1 month |



SOLVENT & SOLUBILITY

In Vitro

DMSO : 125 mg/mL (689.77 mM; Need ultrasonic)

| Concentration | Solvent | Mass | | |
|---------------------------|---------|-----------|------------|------------|
| | | 1 mg | 5 mg | 10 mg |
| Preparing Stock Solutions | 1 mM | 5.5182 mL | 27.5908 mL | 55.1815 mL |
| | 5 mM | 1.1036 mL | 5.5182 mL | 11.0363 mL |
| | 10 mM | 0.5518 mL | 2.7591 mL | 5.5182 mL |

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

BIOLOGICAL ACTIVITY

Description

5-Hydroxytryptophol-d₄ is the deuterium labeled 5-Hydroxytryptophol. 5-Hydroxytryptophol is a mammalian serotonin metabolite, acting as a marker of acute alcohol consumption.

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]. Beck O, et al. 5-hydroxytryptophol as a marker for recent alcohol intake. *Addiction.* 2003 Dec;98 Suppl 2:63-72.

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

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