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Zuschläge

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- Gefahrgutzuschlag
- Expressversand

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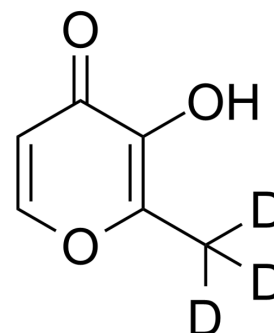
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Maltol-d₃

Cat. No.:	HY-W012788S
CAS No.:	132331-92-1
Molecular Formula:	C ₆ H ₃ D ₃ O ₃
Molecular Weight:	129.13
Target:	Isotope-Labeled Compounds; Endogenous Metabolite; Apoptosis
Pathway:	Others; Metabolic Enzyme/Protease; Apoptosis
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Maltol-d ₃ is a deuterium labeled Maltol (HY-W012788). Maltol, a type of aromatic compound, is an antioxidant agent. Maltol enhances neural function by mitigating oxidative stress and cell apoptosis. Maltol is an inhibitor of oxidative damage in nerve cells and is effective in preventing diabetic peripheral neuropathy (DPN). Maltol is used extensively as a safe flavoring agent and food preservative ^{[1][2][3]} .
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]. Guo N, et al. Maltol, a food flavor enhancer, attenuates diabetic peripheral neuropathy in streptozotocin-induced diabetic rats. Food Funct. 2018 Dec 13;9(12):6287-6297.
- [2]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. Ann Pharmacother. 2019 Feb;53(2):211-246.
- [3]. Yang Y, et al. Maltol inhibits apoptosis of human neuroblastoma cells induced by hydrogen peroxide. J Biochem Mol Biol. 2006 Mar 31;39(2):145-9.

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

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