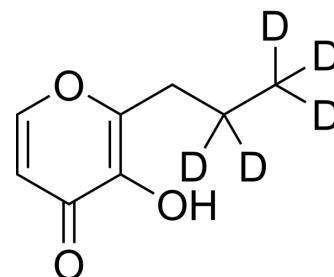


## Ethyl maltol-d<sub>5</sub>

Cat. No.:	HY-W010320S
Molecular Formula:	C <sub>8</sub> H <sub>5</sub> D <sub>5</sub> O <sub>3</sub>
Molecular Weight:	159.19
Target:	Isotope-Labeled Compounds
Pathway:	Others
Storage:	4°C, stored under nitrogen * In solvent : -80°C, 6 months; -20°C, 1 month (stored under nitrogen)



### BIOLOGICAL ACTIVITY

<b>Description</b>	Ethyl maltol-d <sub>5</sub> is the deuterium labeled Ethyl maltol. Ethyl maltol (2-Ethyl-3-hydroxy-4H-pyran-4-one), an odor-active (OA) compound, is an important food additive and the main component of a type of incense added to food[1][2].
<b>In Vitro</b>	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]. Niu Y, et al. Characterization of odor-active compounds of various cherry wines by gas chromatography-mass spectrometry, gas chromatography-olfactometry and their correlation with sensory attributes. *J Chromatogr B Analyt Technol Biomed Life Sci.* 2011 Aug 1;879(23):2287-93.
- [3]. Li Z, et al. Toxicity Studies of Ethyl Maltol and Iron Complexes in Mice. *Biomed Res Int.* 2017;2017:2640619.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA