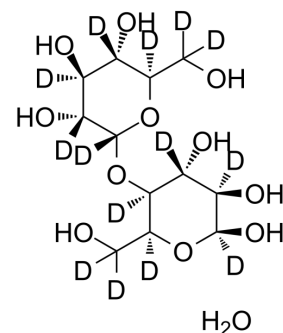


Maltose monohydrate-d14

Cat. No.:	HY-N2024AS
Molecular Formula:	C ₁₂ H ₁₀ D ₁₄ O ₁₂
Molecular Weight:	374.4
Target:	Endogenous Metabolite
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Maltose monohydrate-d14 is the deuterium labeled Maltose monohydrate. Maltose monohydrate is the energy source for bacte ^{[1][2]} .
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 Feb;53(2):211-216.
- [2]. Namavari M, et al. Synthesis of [¹⁸F]-labelled maltose derivatives as PET tracers for imaging bacterial infection. *Mol Imaging Biol*. 2015 Apr;17(2):168-76.

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

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