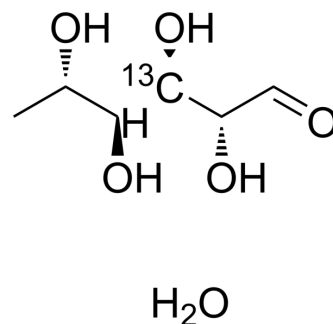


Rhamnose-¹³C-2 monohydrate

Cat. No.:	HY-N1420AS2
CAS No.:	478511-54-5
Molecular Formula:	C ₅ ¹³ CH ₁₄ O ₆
Molecular Weight:	183.16
Target:	Endogenous Metabolite; Isotope-Labeled Compounds
Pathway:	Metabolic Enzyme/Protease; Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Rhamnose- ¹³ C-2 (monohydrate) is the ¹³ C labeled Rhamnose monohydrate. Rhamnose monohydrate (L-Rhamnose monohydrate) is a monosaccharide found in plants and bacteria. Rhamnose monohydrate-conjugated immunogens is used in immunotherapies. Rhamnose monohydrate
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]. Chen W, et al. L-rhamnose antigen: a promising alternative to α-gal for cancer immunotherapies. *ACS Chem Biol.* 2011 Feb 18;6(2):185-91.; Zuhl MN, et al. Effects of oral glutamine supplementation on exercise-induced gastrointestinal permeability and tight

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

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