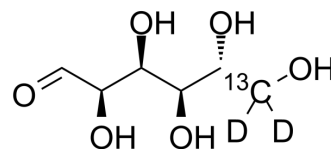


## D-Glucose-13C,d2

Cat. No.:	HY-B0389S21
CAS No.:	478529-33-8
Molecular Formula:	C <sub>5</sub> <sup>13</sup> CH <sub>10</sub> D <sub>2</sub> O <sub>6</sub>
Molecular Weight:	183.16
Target:	Endogenous Metabolite
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

#### Description

D-Glucose-13C,d2 is the deuterium and 13C labeled D-Glucose. D-Glucose (Glucose), a monosaccharide, is an important carbohydrate in biology. D-Glucose is a carbohydrate sweetener and critical components of the general metabolism, and serve as critical sig

#### 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<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 Feb;53(2):211-216.
- [2]. Jin Jiaojiao, et al. D-glucose, D-galactose, and D-lactose non-enzyme quantitative and qualitative analysis method based on Cu foam electrode. *Food Chem*. 2015 May 15;175:485-93.

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

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