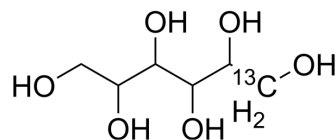


## DL-Mannitol-13C

Cat. No.:	HY-N6618S
CAS No.:	132144-93-5
Molecular Formula:	C <sub>5</sub> <sup>13</sup> CH <sub>14</sub> O <sub>6</sub>
Molecular Weight:	183.16
Target:	Isotope-Labeled Compounds
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	DL-Mannitol- <sup>13</sup> C is the <sup>13</sup> C-labeled DL-Mannitol. DL-Mannitol is obtained by combining D-mannitol with a sample of Lmannitol obtained by reduction of L-mannono-1, Clactone[1].
<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]. Grindley, T. B., et al. Towards understanding 13C-N.M.R. chemical shifts of carbohydrates in the solid state. The spectra of d-mannitol polymorphs and of dl-mannitol. *Carbohydrate Research*, 197, 41-52.

**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