



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Lieferung & Zahlungsart

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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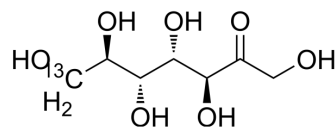
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## D-Mannoheptulose-13C

<b>Cat. No.:</b>	HY-U00462S
<b>Molecular Formula:</b>	C <sub>6</sub> <sup>13</sup> CH <sub>14</sub> O <sub>7</sub>
<b>Molecular Weight:</b>	211.17
<b>Target:</b>	Isotope-Labeled Compounds
<b>Pathway:</b>	Others
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	D-Mannoheptulose- <sup>13</sup> C is the <sup>13</sup> C labeled D-Mannoheptulose. D-Mannoheptulose is a major non-structural carbohydrate in avocado. D-mannoheptulose is a specific inhibitor of D-glucose phosphorylation. D-Mannoheptulose can block insulin release and utilization
<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 Feb;53(2):211-216.
- [2]. D-mannoheptulose and perseitol in 'Hass' avocado: Metabolism in seed and mesocarp tissue. *South African Journal of Botany*. 2012 Mar; 79:159-165.; Courtois P, et al. D-mannoheptulose phosphorylation by hexokinase isoenzymes. *Int J Mol Med*. 2001 Apr;7(4):359

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

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