



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!  
See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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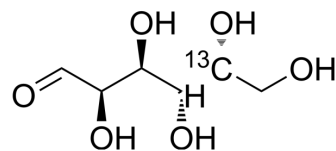
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## D-Galactose-<sup>13</sup>C-4

|                           |   |
|---------------------------|---|
| <b>Cat. No.:</b>          | HY-N0210S3  |
| <b>CAS No.:</b>           | 478518-60-4   |
| <b>Molecular Formula:</b> | C <sub>5</sub> <sup>13</sup> CH <sub>12</sub> O <sub>6</sub>                              |
| <b>Molecular Weight:</b>  | 181.15  |
| <b>Target:</b>            | Endogenous Metabolite; Isotope-Labeled Compounds  |
| <b>Pathway:</b>           | Metabolic Enzyme/Protease; Others   |
| <b>Storage:</b>           | Please store the product under the recommended conditions in the Certificate of Analysis. |



### BIOLOGICAL ACTIVITY

|                    |  |
|--------------------|--|
| <b>Description</b> | D-Galactose- <sup>13</sup> C-4 is the <sup>13</sup> C labeled D-Galactose. D-Galactose is a natural aldohexose and C-4 epimer of glucose[1][2][3][4].  |
| <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> .<br>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]. Csiszovszki Z, et al. Structure and function of the D-galactose network in enterobacteria. *MBio*. 2011 Jun 28;2(4):e00053-11.; Cui X, et al. Chronic systemic D-galactose exposure induces memory loss, neurodegeneration, and oxidativedamage in mice: protectiv

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

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