



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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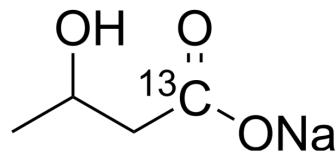
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## 3-Hydroxybutanoic acid-<sup>13</sup>C sodium

Cat. No.:	HY-W015851S
CAS No.:	1173022-79-1
Molecular Formula:	C <sub>3</sub> <sup>13</sup> CH <sub>7</sub> NaO <sub>3</sub>
Molecular Weight:	127.08
Target:	Endogenous Metabolite
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	3-Hydroxybutanoic acid- <sup>13</sup> C- <sup>13</sup> C (sodium) is the <sup>13</sup> C labeled 3-Hydroxybutanoic acid sodium (HY-W010452). 3-Hydroxybutyric acid sodium (β-Hydroxybutyric acid sodium) is a metabolite that is elevated in type I diabetes. 3-Hydroxybutyric acid sodium can modulate the properties of membrane lipids <sup>[1][2]</sup> .
<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]. Hsu TT, et al. 3-Hydroxybutyric acid interacts with lipid monolayers at concentrations that impair consciousness. *Langmuir*. 2013 Feb 12;29(6):1948-55.
- [2]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother*. 2019;53(2):211-216.

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

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