



# 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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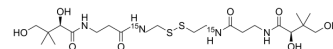
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## Pantethine-<sup>15</sup>N<sub>2</sub>

|                           |                                                                                                           |
|---------------------------|-----------------------------------------------------------------------------------------------------------|
| <b>Cat. No.:</b>          | HY-B1028S                                                                                                 |
| <b>Molecular Formula:</b> | C <sub>22</sub> H <sub>42</sub> N <sub>2</sub> <sup>15</sup> N <sub>2</sub> O <sub>8</sub> S <sub>2</sub> |
| <b>Molecular Weight:</b>  | 556.71                                                                                                    |
| <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

#### Description

Pantethine-<sup>15</sup>N<sub>2</sub> is the <sup>15</sup>N<sub>2</sub> labeled Pantethine. Pantethine is an orally active lipid-lowering agent. Pantethine has anti-tumor, anti-inflammatory and anti-SARS-COV virus activities. Pantethine is also a neuroprotective agent. Pantethine can be used in the study of Alzheimer's disease, Parkinson's disease, major depression, systemic sclerosis and pantothenate kinase-related neurodegeneration<sup>[1][2][3][4][5][6]</sup>.

### REFERENCES

- [1]. Bocos C, et al. Pantethine stimulates lipolysis in adipose tissue and inhibits cholesterol and fatty acid synthesis in liver and intestinal mucosa in the normolipidemic rat. *Environ Toxicol Pharmacol*. 1998 Aug 4;6(1):59-66.
- [2]. Abou-Hamdan M, et al. Potential antiviral effects of pantethine against SARS-CoV-2. *Sci Rep*. 2023 Feb 8;13(1):2237.
- [3]. Penet MF, et al. Effect of Pantethine on Ovarian Tumor Progression and Choline Metabolism. *Front Oncol*. 2016 Nov 16;6:244.
- [4]. Tóth F, et al. Natural Molecules and Neuroprotection: Kynurenic Acid, Pantethine and α-Lipoic Acid. *Int J Mol Sci*. 2021 Jan 2;22(1):403.
- [5]. Kaviani N, et al. Pantethine Prevents Murine Systemic Sclerosis Through the Inhibition of Microparticle Shedding. *Arthritis Rheumatol*. 2015 Jul;67(7):1881-90.
- [6]. Brunetti D, et al. Pantethine treatment is effective in recovering the disease phenotype induced by ketogenic diet in a pantothenate kinase-associated neurodegeneration mouse model. *Brain*. 2014 Jan;137(Pt 1):57-68.

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

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