



# 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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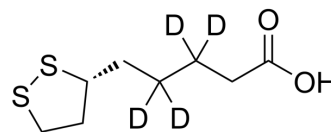
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## Lipoic acid-d<sub>4</sub>

|                    |                                                                                                     |
|--------------------|-----------------------------------------------------------------------------------------------------|
| Cat. No.:          | HY-18733S                                                                                           |
| CAS No.:           | 1448263-85-1                                                                                        |
| Molecular Formula: | C <sub>8</sub> H <sub>10</sub> D <sub>4</sub> O <sub>2</sub> S <sub>2</sub>                         |
| Molecular Weight:  | 210.35                                                                                              |
| Target:            | Isotope-Labeled Compounds; Endogenous Metabolite; Mitochondrial Metabolism; Reactive Oxygen Species |
| Pathway:           | Others; Metabolic Enzyme/Protease; Immunology/Inflammation; NF-κB                                   |
| Storage:           | Please store the product under the recommended conditions in the Certificate of Analysis.           |



### BIOLOGICAL ACTIVITY

#### Description

Lipoic acid-d<sub>4</sub> ((R)-(+)-α-Lipoic acid-d<sub>4</sub>) is deuterium labeled Lipoic acid. Lipoic acid ((R)-(+)-α-Lipoic acid) is an antioxidant, which is an essential cofactor of mitochondrial enzyme complexes. (R)-(+)-α-Lipoic acid is more effective than racemic Lipoic acid<sup>[1]</sup>.

### REFERENCES

- [1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother*. 2019 Feb;53(2):211-216.
- [2]. Nasole E, et al. Effects of alpha lipoic acid and its R+ enantiomer supplemented to hyperbaric oxygen therapy on interleukin-6, TNF-α and EGF production in chronic leg wound healing. *J Enzyme Inhib Med Chem*. 2014 Apr;29(2):297-302.

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

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