



# 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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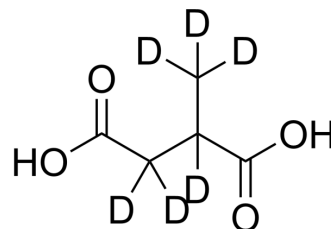
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## 2-Methylsuccinic acid-d6

|                    |                                                                                           |
|--------------------|-------------------------------------------------------------------------------------------|
| Cat. No.:          | HY-W010381S                                                                               |
| CAS No.:           | 347840-08-8                                                                               |
| Molecular Formula: | C <sub>5</sub> H <sub>2</sub> D <sub>6</sub> O <sub>4</sub>                               |
| Molecular Weight:  | 138.15                                                                                    |
| Target:            | Endogenous Metabolite                                                                     |
| Pathway:           | Metabolic Enzyme/Protease                                                                 |
| Storage:           | Please store the product under the recommended conditions in the Certificate of Analysis. |



### BIOLOGICAL ACTIVITY

|             |                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description | 2-Methylsuccinic acid-d <sub>6</sub> is the deuterium labeled 2-Methylsuccinic acid[1]. 2-Methylsuccinic acid is a normal metabolite in human fluids and the main biochemical measurable features in ethylmalonic encephalopathy[2][3].                                                                                                                                                                                        |
| In Vitro    | 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]. Grosso S, et al. Ethylmalonic encephalopathy: further clinical and neuroradiological characterization. *J Neurol*. 2002 Oct;249(10):1446-50.
- [3]. Nowaczyk MJ, et al. Ethylmalonic and methylsuccinic aciduria in ethylmalonic encephalopathy arise from abnormal isoleucine metabolism. *Metabolism*. 1998 Jul;47(7):836-9.

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

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