



# 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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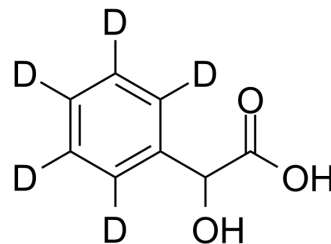
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## Mandelic acid-2,3,4,5,6-d5

<b>Cat. No.:</b>	HY-W015591S
<b>CAS No.:</b>	70838-71-0
<b>Molecular Formula:</b>	C <sub>8</sub> H <sub>3</sub> D <sub>5</sub> O <sub>3</sub>
<b>Molecular Weight:</b>	157.18
<b>Target:</b>	Bacterial; Endogenous Metabolite
<b>Pathway:</b>	Anti-infection; Metabolic Enzyme/Protease
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	Mandelic acid-2,3,4,5,6-d5 ((±)-Mandelic acid-2,3,4,5,6-d5) is the deuterium labeled Mandelic acid. Mandelic acid ((±)-Mandelic acid), an alpha-hydroxycarboxylic acid, has been widely used as an intermediate of pharmaceutical and fine chemicals. Mandelic acid shows antimicrobial activity and has been used for the research of urinary tract infections and vaginal trichomoniasis. Mandelic acid exhibits high sperm-immobilizing activity and low vaginal irritation <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]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother.* 2019;53(2):211-216.
- [2]. Xia M, et al. dl-Mandelic acid exhibits high sperm-immobilizing activity and low vaginal irritation: A potential non-surfactant spermicide for contraception. *Biomed Pharmacother.* 2020;126:110104.
- [3]. Tang LP, et al. DL-mandelic acid intercalated Zn-Al layered double hydroxide: A novel antimicrobial layered material. *Colloids Surf B Biointerfaces.* 2018;165:111-117.

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

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