



# 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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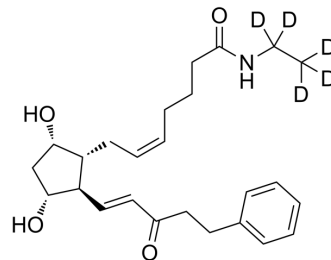
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## 15-Keto Bimatoprost-d<sub>5</sub>

|                    |                                                                |       |          |
|--------------------|----------------------------------------------------------------|-------|----------|
| Cat. No.:          | HY-132277S                                                     |       |          |
| Molecular Formula: | C <sub>25</sub> H <sub>30</sub> D <sub>5</sub> NO <sub>4</sub> |       |          |
| Molecular Weight:  | 418.58                                                         |       |          |
| Target:            | Isotope-Labeled Compounds                                      |       |          |
| Pathway:           | Others                                                         |       |          |
| Storage:           | Powder                                                         | -20°C | 3 years  |
|                    |                                                                | 4°C   | 2 years  |
|                    | In solvent                                                     | -80°C | 6 months |
|                    |                                                                | -20°C | 1 month  |



## SOLVENT & SOLUBILITY

## In Vitro

Ethanol :  $\geq 10$  mg/mL (23.89 mM)  
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 DMF :  $\geq 2.5$  mg/mL (5.97 mM)  
 DMF :  $\geq 2.5$  mg/mL (5.97 mM)  
 DMSO :  $\geq 2$  mg/mL (4.78 mM)  
 DMSO :  $\geq 2$  mg/mL (4.78 mM)  
 PBS (pH 7.2) :  $\geq 0.5$  mg/mL (1.19 mM)

\* ">" means soluble, but saturation unknown.

| Preparing Stock Solutions | Mass    |               | 1 mg      | 5 mg       | 10 mg      |
|---------------------------|---------|---------------|-----------|------------|------------|
|                           | Solvent | Concentration |           |            |            |
|                           | 1 mM    |               | 2.3890 mL | 11.9451 mL | 23.8903 mL |
|                           | 5 mM    |               | 0.4778 mL | 2.3890 mL  | 4.7781 mL  |
|                           | 10 mM   |               | 0.2389 mL | 1.1945 mL  | 2.3890 mL  |

Please refer to the solubility information to select the appropriate solvent.

## BIOLOGICAL ACTIVITY

### Description

15-Keto Bimatoprost-d<sub>5</sub> is the deuterium labeled 15-Keto Bimatoprost. 15-Keto Bimatoprost is a prostaglandin F<sub>2α</sub> (PGF<sub>2α</sub>) analog that can be used for the research of ocular hypotensive[1][2].

## 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>.  
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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## REFERENCES

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- [1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother*. 2019;53(2):211-216.
- [2]. Rahman MS, et al. Screening and quantification of undeclared PGF2 $\alpha$  analogs in eyelash-enhancing cosmetic serums using LC-MS/MS. *J Pharm Biomed Anal*. 2022 Sep 20;219:114940.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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