



# 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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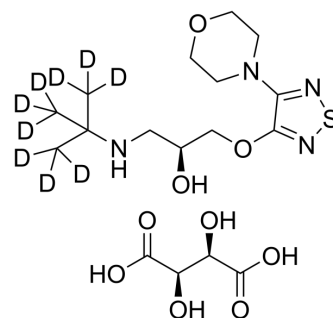
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## Timolol-d<sub>9</sub> maleate

|                           |                                                                                           |
|---------------------------|-------------------------------------------------------------------------------------------|
| <b>Cat. No.:</b>          | HY-17494S1                                                                                |
| <b>Molecular Formula:</b> | C <sub>17</sub> H <sub>21</sub> D <sub>9</sub> N <sub>4</sub> O <sub>9</sub> S            |
| <b>Molecular Weight:</b>  | 475.56                                                                                    |
| <b>Target:</b>            | Isotope-Labeled Compounds; Adrenergic Receptor                                            |
| <b>Pathway:</b>           | Others; GPCR/G Protein; Neuronal Signaling                                                |
| <b>Storage:</b>           | Please store the product under the recommended conditions in the Certificate of Analysis. |



### BIOLOGICAL ACTIVITY

#### Description

Timolol-d<sub>9</sub> (maleate) is deuterium labeled Timolol. Timolol is a β-blocker available for both topical and systemic administration. Topical Timolol is primarily used to reduce intraocular pressure with open-angle glaucoma and ocular hypertension. Timolol can also be used for the research of infantile hemangiomas, hypertension, myocardial infarction, migraine prophylaxis, and atrial fibrillation. Timolol also has cardioprotective effect<sup>[1][2][3]</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]. E. Ansari, et al. Treatment of open-angle glaucoma and ocular hypertension with preservative-free tafuprost/timolol fixed-dose combination therapy: 6 case reports and clinical outcomes. *BMC Ophthalmol*. 2022 Apr 2;22(1):152.
- [3]. James Barnes; Majid Moshirfar. Timolol.
- [4]. Figen Amber Cicek, et al. Beta-blocker timolol alleviates hyperglycemia-induced cardiac damage via inhibition of endoplasmic reticulum stress. *J Bioenerg Biomembr*. 2014 Oct;46(5):377-87.

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

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