



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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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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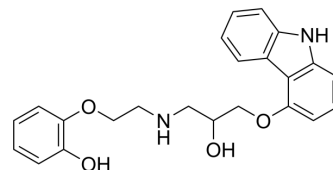
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## O-Desmethylcarvedilol

Cat. No.:	HY-Z7733
CAS No.:	72956-44-6
Molecular Formula:	C <sub>23</sub> H <sub>24</sub> N <sub>2</sub> O <sub>4</sub>
Molecular Weight:	392.45
Target:	Calcium Channel
Pathway:	Membrane Transporter/Ion Channel; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

#### Description

O-Desmethylcarvedilol (Desmethylcarvedilol) is an active metabolite of the non-selective  $\beta$ -adrenergic receptor ( $\beta$ -AR) antagonist Carvedilol (HY-B0006). O-Desmethylcarvedilol inhibits store-overload-induced calcium release in HEK293 cells expressing the ryanodine receptor 2 (RyR2) R4496C (RyR2<sup>R4496C</sup>) mutation ( $IC_{50} = 7.62 \mu\text{M}$ ). O-Desmethylcarvedilol reduces increases in heart rate and prevents decreases in diastolic blood pressure induced by Isoproterenol (HY-B0468) in conscious rabbits ( $ED_{50}$ s = 32 and 5  $\mu\text{g}/\text{kg}$ , respectively)<sup>[1][2]</sup>.

### REFERENCES

- [1]. Chris D Smith, et al. Novel carvedilol analogues that suppress store-overload-induced Ca<sup>2+</sup> release. J Med Chem. 2013 Nov 14;56(21):8626-55.
- [2]. K Strein, et al. Pharmacological profile of carvedilol, a compound with  $\beta$ -blocking and vasodilating properties. J Cardiovasc Pharmacol. 1987;10 Suppl 11:S33-41.

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

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