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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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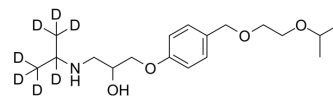
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Bisoprolol-d₇

Cat. No.:	HY-W707407
CAS No.:	1310012-16-8
Molecular Formula:	C ₁₈ H ₂₄ D ₇ NO ₄
Molecular Weight:	332.49
Target:	Isotope-Labeled Compounds; Adrenergic Receptor
Pathway:	Others; GPCR/G Protein; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

Bisoprolol-d₇ is deuterium labeled Bisoprolol. Bisoprolol is a potent, selective and orally active β 1-adrenergic receptor blocker with little activity on β 2-receptor. Bisoprolol has the potential for hypertension, coronary artery disease and stable ventricular dysfunction research^{[1][2]}.

REFERENCES

- [1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother*. 2019 Feb;53(2):211-216.
- [2]. Jillian G Baker, et al. The selectivity of beta-adrenoceptor antagonists at the human beta1, beta2 and beta3 adrenoceptors. *Br J Pharmacol*. 2005 Feb;144(3):317-22.
- [3]. Jing Wang, et al. Bisoprolol, a β 1 antagonist, protects myocardial cells from ischemia-reperfusion injury via PI3K/AKT/GSK3 β pathway. *Fundam Clin Pharmacol*. 2020 Dec;34(6):708-720.
- [4]. Hong Yang, et al. Bisoprolol reverses epinephrine-mediated inhibition of cell emigration through increases in the expression of β -arrestin 2 and CCR7 and PI3K phosphorylation, in dendritic cells loaded with cholesterol. *Thromb Res*. 2013 Mar;131(3):230-7.
- [5]. Jinhua Liu, et al. Protective Effects of Bisoprolol Against Cadmium-induced Myocardial Toxicity Through Inhibition of Oxidative Stress and NF- κ B Signalling in Rats. *J Vet Res*. 2021 Oct 20;65(4):505-511.
- [6]. Yajuan Ni, et al. Bisoprolol reversed small conductance calcium-activated potassium channel (SK) remodeling in a volume-overload rat model. *Mol Cell Biochem*. 2013 Dec;384(1-2):95-103.

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

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