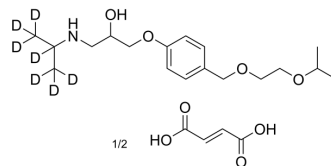


Bisoprolol-d7 hemifumarate

Cat. No.:	HY-B0076S
Molecular Formula:	$C_{18}H_{24}D_7NO_4 \cdot 1/2 C_4H_4O_4$
Molecular Weight:	390.53
Target:	Adrenergic Receptor
Pathway:	GPCR/G Protein; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Bisoprolol-d7 hemifumarate is the deuterium labeled Bisoprolol hemifumarate. Bisoprolol hemifumarate is a selective type β_1 adrenergic receptor blocker.
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 ^[1] . 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]. Matsui, S., et al., Protective effect of bisoprolol on beta-1 adrenoceptor peptide-induced autoimmune myocardial damage in rabbits. *Herz*, 2000. 25(3): p. 267-70.
- [3]. Wargon, M., et al., Acute effects of bisoprolol on respiratory sinus arrhythmia. *Fundam Clin Pharmacol*, 1998. 12(4): p. 451-6.

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

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