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Zuschläge

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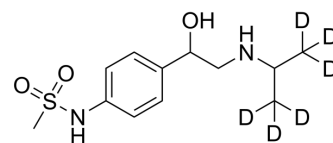
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Sotalol-d₆

Cat. No.:	HY-B0437S
CAS No.:	1246912-17-3
Molecular Formula:	C ₁₂ H ₁₄ D ₆ N ₂ O ₃ S
Molecular Weight:	278.4
Target:	Adrenergic Receptor; Potassium Channel; Isotope-Labeled Compounds
Pathway:	GPCR/G Protein; Neuronal Signaling; Membrane Transporter/Ion Channel; Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Sotalol-d ₆ is the deuterium labeled Sotalol. Sotalol is an orally active, non-selective β-adrenergic receptor blocker. Sotalol is a potent antiarrhythmic agent that can be used for the research of pediatric arrhythmias. Sotalol blocks β-receptors, and potassium KCNH2 channels. Antiepileptic Agent[1][2][3][4].
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]. Marta Reyes-Corral, et al. Differential Free Intracellular Calcium Release by Class II Antiarrhythmics in Cancer Cell Lines. *J Pharmacol Exp Ther*. 2019 Apr;369(1):152-162.
- [3]. Xiaomei Li, et al. Pediatric Dosing of Intravenous Sotalol Based on Body Surface Area in Patients with Arrhythmia. *Pediatr Cardiol*. 2017 Oct;38(7):1450-1455.
- [4]. Kinga K Borowicz-Reutt, et al. Sotalol does not interfere with the antielectroshock action of selected second-generation antiepileptic drugs in mice. *Pharmacol Rep*. 2021 Apr;73(2):516-524.

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

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