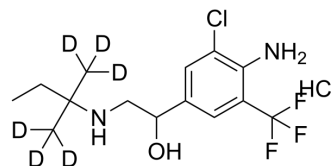


Mapenterol-d₆ hydrochloride

Cat. No.:	HY-136435S1
CAS No.:	1246816-02-3
Molecular Formula:	C ₁₄ H ₁₅ D ₆ Cl ₂ F ₃ N ₂ O
Molecular Weight:	330.81
Target:	Adrenergic Receptor; Isotope-Labeled Compounds
Pathway:	GPCR/G Protein; Neuronal Signaling; Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Mapenterol-d ₆ (hydrochloride) is the deuterium labeled Mapenterol hydrochloride. Mapenterol hydrochloride is a type of β ₂ -adrenoceptor agonist[1][2].
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]. Shuyun Bi, et al. Study on the interactions of mapenterol with serum albumins using multi-spectroscopy and molecular docking. *Luminescence*. 2016 Mar;31(2):372-379.

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

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