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Zuschläge

- Mindermengenzuschlag
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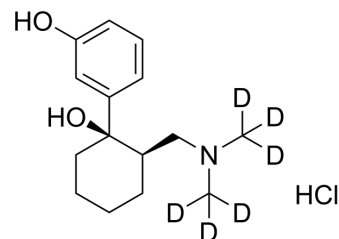
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O-Desmethyltramadol-d₆ hydrochloride

Cat. No.:	HY-109054AS
CAS No.:	1261393-87-6
Molecular Formula:	C ₁₅ H ₁₈ D ₆ ClNO ₂
Molecular Weight:	291.85
Target:	Drug Metabolite; Isotope-Labeled Compounds
Pathway:	Metabolic Enzyme/Protease; Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	O-Desmethyltramadol-d ₆ (hydrochloride) is a deuterated labeled O-Desmethyltramadol (hydrochloride) ^[1] . O-Desmethyltramadol (hydrochloride) is a primary active metabolite of Tramadol. O-Desmethyltramadol is mainly responsible for its μ-opioid receptor-related analgesic effect. Tramadol is metabolized to O-Desmethyltramadol mainly by the cytochrome P450 (CYP) 2D6 enzyme ^[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]. Lee J, et al. Population pharmacokinetic analysis of tramadol and O-desmethyltramadol with genetic polymorphism of CYP2D6. Drug Des Devel Ther. 2019;13:1751-1761.
- [2]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. Ann Pharmacother. 2019 Feb;53(2):211-216.

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

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