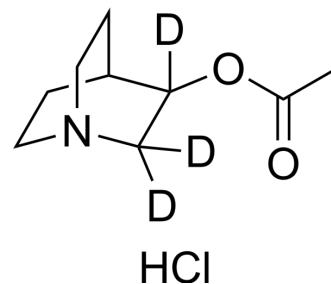


Aceclidine-d₃ hydrochloride

Cat. No.:	HY-32067AS
CAS No.:	2713384-81-5
Molecular Formula:	C ₉ H ₁₃ D ₃ ClNO ₂
Molecular Weight:	208.7
Target:	Isotope-Labeled Compounds
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Aceclidine-d ₃ hydrochloride is a deuterated version of Aceclidine (HY-32067). Aceclidine is a modulator of the M3 muscarinic acetylcholine receptor.
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]. Gerald Horn, et al. Storage Stable Compositions and Methods for the Treatment of Refractive Errors of the Eye. Patent US20150290125A1.
- [2]. Thomas G. Gant, et al. Imidazole modulators of muscarinic acetylcholine receptor m3. Patent US20110091459A1.
- [3]. 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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