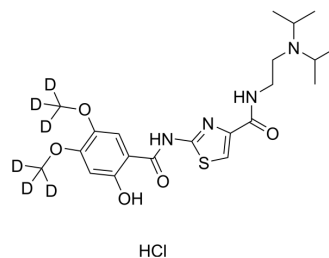


Acotiamide-d₆ hydrochloride

Cat. No.:	HY-121467AS
Molecular Formula:	C ₂₁ H ₂₅ D ₆ ClN ₄ O ₅ S
Molecular Weight:	493.05
Target:	Cholinesterase (ChE); Isotope-Labeled Compounds
Pathway:	Neuronal Signaling; Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Acotiamide-d ₆ (hydrochloride) is deuterium labeled Acotiamide (hydrochloride).
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]. Attia KAM, et al. Spectrofluorimetric determination of acotiamide hydrochloride trihydrate in the presence of its oxidative degradation product. Luminescence. 2018 Jun;33(4):806-811.
- [2]. Nowlan ML, et al. Acotiamide: first global approval. Drugs. 2013 Aug;73(12):1377-83.
- [3]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. Ann Pharmacother. 2019;53(2):211-216.

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

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