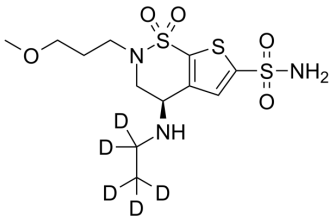
Brinzolamide-d5

Cat. No.:	HY-B0588S
CAS No.:	1217651-02-9
Molecular Formula:	$C_{12}H_{16}D_5N_3O_5S_3$
Molecular Weight:	388.54
Target:	Carbonic Anhydrase
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Brinzolamide-d5 (AL-4862-d5) is the deuterium labeled Brinzolamide. Brinzolamide (AL 4862) is a potent carbonic anhydrase II inhibitor with IC_{50} of 3.19 nM.
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]. DeSantis, L., Preclinical overview of brinzolamide. Surv Ophthalmol, 2000. 44 Suppl 2: p. S119-29.

[3]. Silver, L.H., Dose-response evaluation of the ocular hypotensive effect of brinzolamide ophthalmic suspension (Azopt). Brinzolamide Dose-Response Study Group. Surv Ophthalmol, 2000. 44 Suppl 2: p. S147-53.

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