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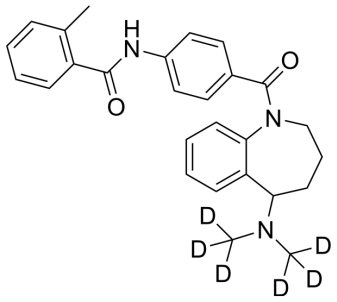
Mozavaptan-d_6

Cat. No.:	HY-18346S
CAS No.:	2750534-83-7
Molecular Formula:	$C_{27}H_{23}D_6N_3O_2$
Molecular Weight:	433.58
Target:	Vasopressin Receptor; Isotope-Labeled Compounds
Pathway:	GPCR/G Protein; Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Mozavaptan-d6 (OPC-31260-d6) is the deuterium labeled Mozavaptan. Mozavaptan (OPC-31260) is a benzazepine derivative and a potent, selective, competitive and orally active vasopressin V_2 receptor antagonist with an IC_{50} of 14 nM. Mozavaptan shows ~85-fold selectivity for V_2 receptor over V_1 receptor (IC_{50} of 1.2 μM), and can antagonize the antidiuretic action of arginine vasopressin (AVP) in vivo. Mozavaptan has the potential for hyponatremia, syndrome of inappropriate antidiuretic hormone (SIADH), and congestive heart failure treatment[1][2].
IC_{50} & Target	V2 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]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. Ann Pharmacother. 2019;53(2):211-216.

[2]. Yamamura Y, et al. Characterization of a novel aquaretic agent, OPC-31260, as an orally effective, nonpeptide vasopressin V2 receptor antagonist. Br J Pharmacol. 1992 Apr;105(4):787-91.

[3]. Yamaguchi K, et al. Clinical implication of the antidiuretic hormone (ADH) receptor antagonist mozavaptan hydrochloride in patients with ectopic ADH syndrome. Jpn J Clin Oncol. 2011 Jan;41(1):148-52.

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