Phenoxybenzamine-d5 hydrochloride

Cat. No.: HY-B0431AS

CAS No.: 1329838-45-0

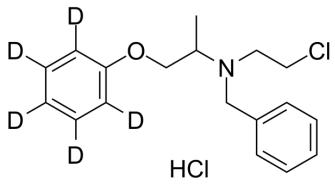
Molecular Formula: $C_{18}H_{18}D_5Cl_2NO$

Molecular Weight: 345.32

Target: Adrenergic Receptor

Pathway: GPCR/G Protein; Neuronal Signaling

Storage: Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Phenoxybenzamine-d5 hydrochloride is the deuterium labeled Phenoxybenzamine hydrochloride. Phenoxybenzamine hydrochloride is a nonselective, irreversible, orally active α-adrenoceptor antagonist that is commonly used for the research of hypertension, specifically caused by pheochromocytoma. Phenoxybenzamine hydrochloride also shows antitumor activity[1][2][3].
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]. Habbe N, et al. Urapidil in the preoperative treatment of pheochromocytomas: a safe and cost-effective method. World J Surg. 2013 May;37(5):1141-6.

[3]. Lin XB, et al. Anti-tumor activity of phenoxybenzamine hydrochloride on malignant glioma cells. Tumour Biol. 2016 Mar;37(3):2901-8.

[4]. Rau TF, et al. Phenoxybenzamine is neuroprotective in a rat model of severe traumatic brain injury. Int J Mol Sci. 2014 Jan 20;15(1):1402-17.

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