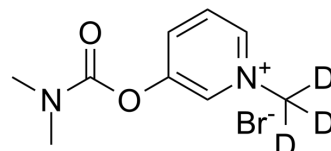


Pyridostigmine-d3 bromide

Cat. No.:	HY-B0207AS1
Molecular Formula:	C ₉ H ₁₀ D ₃ BrN ₂ O ₂
Molecular Weight:	264.13
Target:	AChE
Pathway:	Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Pyridostigmine-d3 bromide is the deuterium labeled Pyridostigmine bromide. Pyridostigmine bromide is a parasympathomimetic and a reversible cholinesterase inhibitor.
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]. Gales BJ, et al. Pyridostigmine in the treatment of orthostatic intolerance. *Ann Pharmacother.* 2007 Feb;41(2):314-8. Epub 2007 Feb 6.
- [3]. Kanjwal K, et al. Pyridostigmine in the treatment of postural orthostatic tachycardia: a single-center experience. *Pacing Clin Electrophysiol.* 2011 Jun;34(6):750-5.

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

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