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SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

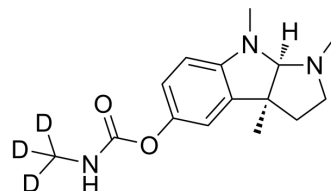
mail@szabo-scandic.com

www.szabo-scandic.com

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Physostigmine-d₃

Cat. No.:	HY-N6608S
CAS No.:	1217704-11-4
Molecular Formula:	C ₁₅ H ₁₈ D ₃ N ₃ O ₂
Molecular Weight:	278.36
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	Physostigmine-d ₃ is the deuterium labeled Physostigmine. Physostigmine (Eserine) is a reversible acetylcholinesterase (AChE) inhibitor. Physostigmine can cross the blood-brain barrier and stimulate central cholinergic neurotransmission. Physostigmine can reverse memory deficits in transgenic mice with Alzheimer's disease. Physostigmine is also an antidote for anticholinergic poisoning[1][2][3][4].
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]. Jonathan D Kenny, et al. Physostigmine and Methylphenidate Induce Distinct Arousal States During Isoflurane General Anesthesia in Rats. *Anesth Analg.* 2016 Nov;123(5):1210-1219.
- [3]. Haase U, et al. Pharmakotherapie--physostigmin post OP [Pharmacotherapy--physostigmine administered post-operatively]. *Anesthesiol Intensivmed Notfallmed Schmerzther.* 2007;42(3):188-189.
- [4]. Dong H, et al, Bertchume A, Vallera D, Csernansky JG. Acetylcholinesterase inhibitors ameliorate behavioral deficits in the Tg2576 mouse model of Alzheimer's disease. *Psychopharmacology (Berl).* 2005;181(1):145-152.
- [5]. Frascogna N. Physostigmine: is there a role for this antidote in pediatric poisonings? *Curr Opin Pediatr.* 2007;19(2):201-205.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA