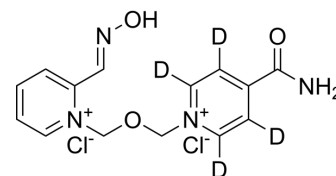


Asoxime-d₄ dichloride

Cat. No.:	HY-106901AS
Molecular Formula:	C ₁₄ H ₁₂ D ₄ Cl ₂ N ₄ O ₃
Molecular Weight:	363.23
Target:	nAChR; Isotope-Labeled Compounds
Pathway:	Membrane Transporter/Ion Channel; Neuronal Signaling; Others
Storage:	-20°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



BIOLOGICAL ACTIVITY

Description	Asoxime-d ₄ (dichloride) is the deuterium labeled Asoxime dichloride. Asoxime dichloride (HI-6) is an antagonist to acetylcholine receptors (AChRs) including the nicotinic receptor, α7 nAChR. Asoxime dichloride involves in modulating immunity response. Asoxime dichloride (HI-6) can be used as an antigen and improves vaccination efficacy in the nervous system[1].
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]. Pohanka M, et al. HI-6 modulates immunization efficacy in a BALB/c mouse model. *Environ Toxicol Pharmacol.* 2013 Nov;36(3):801-6.

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

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