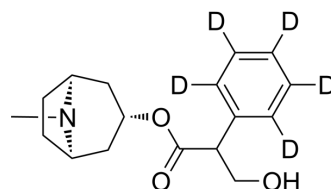


Atropine-d₅

Cat. No.:	HY-B0394S	
Molecular Formula:	C ₁₇ H ₁₈ D ₅ NO ₃	
Molecular Weight:	294.4	
Target:	mAChR; Autophagy	
Pathway:	GPCR/G Protein; Neuronal Signaling; Autophagy	
Storage:	Powder	-20°C 3 years
	In solvent	-80°C 6 months
		-20°C 1 month



BIOLOGICAL ACTIVITY

Description	Atropine-d ₅ is the deuterium labeled Atropine (sulfate monohydrate). Atropine (Tropine tropate) sulfate monohydrate is a broad-spectrum and competitive muscarinic acetylcholine receptor (mAChR) antagonist with anti-myopia effect[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]. McBrien NA, et al. How does atropine exert its anti-myopia effects? *Ophthalmic Physiol Opt*. 2013 May;33(3):373-8.

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

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