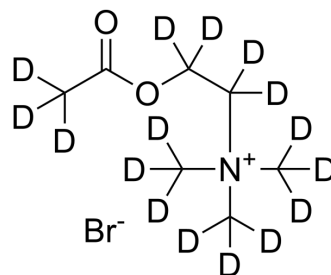


Acetylcholine-d₁₆ bromide

Cat. No.:	HY-B0282AS3
CAS No.:	347841-43-4
Molecular Formula:	C ₇ D ₁₆ BrNO ₂
Molecular Weight:	242.21
Target:	nAChR; Calcium Channel; Endogenous Metabolite; Isotope-Labeled Compounds
Pathway:	Membrane Transporter/Ion Channel; Neuronal Signaling; Metabolic Enzyme/Protease; Others
Storage:	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro

H₂O : 250 mg/mL (1032.16 mM; Need ultrasonic)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	4.1286 mL	20.6432 mL	41.2865 mL
5 mM	0.8257 mL	4.1286 mL	8.2573 mL
10 mM	0.4129 mL	2.0643 mL	4.1286 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

Acetylcholine-d₁₆ (bromide) is the deuterium labeled Acetylcholine bromide[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.

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

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