## **Product** Data Sheet

# Acetylcholine-d<sub>4</sub> bromide

Cat. No.: HY-B0282AS1 CAS No.: 93449-31-1 Molecular Formula: C<sub>7</sub>H<sub>12</sub>D<sub>4</sub>BrNO<sub>2</sub>

Molecular Weight: 230.14

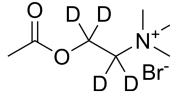
nAChR; Calcium Channel; Endogenous Metabolite; Isotope-Labeled Compounds Target:

Pathway: Membrane Transporter/Ion Channel; Neuronal Signaling; Metabolic

Enzyme/Protease; Others

4°C, sealed storage, away from moisture Storage:

\* In solvent: -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



## SOLVENT & SOLUBILITY

In Vitro

H2O: 250 mg/mL (1086.30 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg
	1 mM	4.3452 mL	21.7259 mL	43.4518 mL
	5 mM	0.8690 mL	4.3452 mL	8.6904 mL
	10 mM	0.4345 mL	2.1726 mL	4.3452 mL

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

### **BIOLOGICAL ACTIVITY**

Description	Acetylcholine-d <sub>4</sub> (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 <sup>[1]</sup> .  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.

 $\label{lem:caution:Product} \textbf{Caution: Product has not been fully validated for medical applications. For research use only.}$ 

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