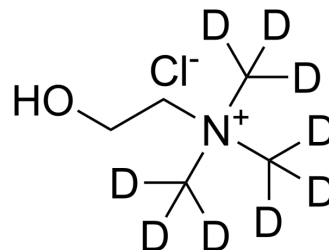


Choline-d₉ chloride

Cat. No.:	HY-B1337S1
CAS No.:	61037-86-3
Molecular Formula:	C ₅ H ₅ D ₉ ClNO
Molecular Weight:	148.68
Target:	Cholinesterase (ChE)
Pathway:	Neuronal Signaling
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

DMSO : ≥ 140 mg/mL (941.62 mM)
 H₂O : ≥ 100 mg/mL (672.59 mM)
 H₂O : 100 mg/mL (672.59 mM; Need ultrasonic)
 * "≥" means soluble, but saturation unknown.

Solvent	Mass	Concentration		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	6.7259 mL	33.6293 mL	67.2585 mL
	5 mM	1.3452 mL	6.7259 mL	13.4517 mL
	10 mM	0.6726 mL	3.3629 mL	6.7259 mL

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

BIOLOGICAL ACTIVITY

Description

Choline-d₉ (chloride) is the deuterium labeled Choline chloride. Choline chloride is an organic compound and a quaternary ammonium salt, an acyl group acceptor and choline acetyltransferase substrate, also is an important additive in feed especially for chickens where it accelerates growth.

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.

CUSTOMER VALIDATION

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- Clin Chim Acta. 2023 Dec 16:117726.

See more customer validations on www.MedChemExpress.com

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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