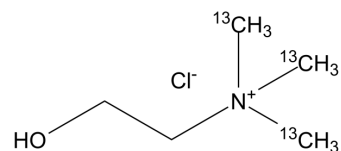


Choline Chloride-¹³C₃

Cat. No.:	HY-B1337S4
Molecular Formula:	C ₂ ¹³ C ₃ H ₁₄ ClNO
Molecular Weight:	142.6
Target:	Cholinesterase (ChE)
Pathway:	Neuronal Signaling
Storage:	-20°C, protect from light
	* In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 140 mg/mL (981.77 mM)
 H₂O : ≥ 100 mg/mL (701.26 mM)
 * "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
	1 mM		7.0126 mL	35.0631 mL	70.1262 mL
	5 mM		1.4025 mL	7.0126 mL	14.0252 mL
	10 mM		0.7013 mL	3.5063 mL	7.0126 mL

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

BIOLOGICAL ACTIVITY

Description

Choline Chloride-¹³C₃ is the ¹³C-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.

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.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA