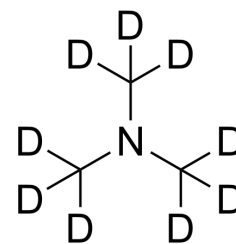


## Trimethylammonium chloride-d<sub>9</sub>

<b>Cat. No.:</b>	HY-Y0504S3
<b>CAS No.:</b>	18856-86-5
<b>Molecular Formula:</b>	C <sub>3</sub> HD <sub>9</sub> ClN
<b>Molecular Weight:</b>	104.63
<b>Target:</b>	Endogenous Metabolite
<b>Pathway:</b>	Metabolic Enzyme/Protease
<b>Storage:</b>	-20°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



HCl

### SOLVENT & SOLUBILITY

#### In Vitro

H<sub>2</sub>O : 100 mg/mL (955.75 mM; Need ultrasonic)

Solvent	Mass	Concentration		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	9.5575 mL	47.7874 mL	95.5749 mL
	5 mM	1.9115 mL	9.5575 mL	19.1150 mL
	10 mM	0.9557 mL	4.7787 mL	9.5575 mL

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

### BIOLOGICAL ACTIVITY

#### Description

Trimethylammonium chloride-d<sub>9</sub> is the deuterium labeled Trimethylammonium chloride<sup>[1]</sup>. Trimethylammonium chloride is an endogenous metabolite.

#### 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 Feb;53(2):211-216.

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

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