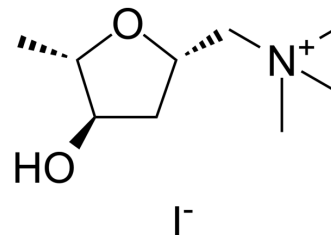


## Muscarine iodide

Cat. No.:	HY-107654
CAS No.:	24570-49-8
Molecular Formula:	C <sub>9</sub> H <sub>20</sub> INO <sub>2</sub>
Molecular Weight:	301.17
Target:	mAChR
Pathway:	GPCR/G Protein; Neuronal Signaling
Storage:	-20°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

H<sub>2</sub>O : 50 mg/mL (166.02 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	3.3204 mL	16.6019 mL	33.2038 mL
	5 mM	0.6641 mL	3.3204 mL	6.6408 mL
	10 mM	0.3320 mL	1.6602 mL	3.3204 mL

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

### BIOLOGICAL ACTIVITY

#### Description

Muscarine ((+)-Muscarine) iodide is a toxin that can stimulate the parasympathetic nervous system. Muscarine iodide is a prototype muscarinic acetylcholine receptor agonist<sup>[1][2]</sup>.

#### In Vitro

Muscarine iodide administration (100 μM) induces an intracellular calcium signal amplitude similar to the one triggered by 10 μM ACh<sup>[1]</sup>.

Muscarine iodide (1-30 μM) produces a dose-dependent hyperpolarization in a sub-population of the NRM cells that contain 5-hydroxytryptamine (5-HT) on the NRM neurons<sup>[2]</sup>.

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

- [1]. Beatrice Mihaela Radu, et al. All muscarinic acetylcholine receptors (M 1-M 5) are expressed in murine brain microvascular endothelium. *Sci Rep.* 2017 Jul 11;7(1):5083.
- [2]. Z Z Pan, et al. Muscarine hyperpolarizes a subpopulation of neurons by activating an M2 muscarinic receptor in rat nucleus raphe magnus in vitro. *J Neurosci.* 1994 Mar;14(3 Pt 1):1332-8.

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

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