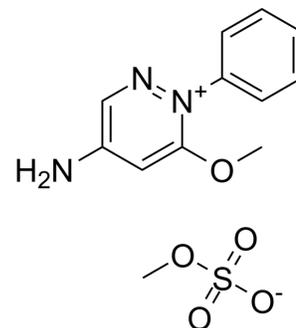


## Amezinium methylsulfate

Cat. No.:	HY-A0275
CAS No.:	30578-37-1
Molecular Formula:	C <sub>12</sub> H <sub>15</sub> N <sub>3</sub> O <sub>5</sub> S
Molecular Weight:	313.33
Target:	Adrenergic Receptor
Pathway:	GPCR/G Protein; 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

H<sub>2</sub>O : 50 mg/mL (159.58 mM; Need ultrasonic)  
 DMSO : ≥ 34 mg/mL (108.51 mM)  
 \* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
		1 mM	3.1915 mL	15.9576 mL	31.9152 mL
	5 mM	0.6383 mL	3.1915 mL	6.3830 mL	
	10 mM	0.3192 mL	1.5958 mL	3.1915 mL	

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

#### In Vivo

1. Add each solvent one by one: PBS  
 Solubility: 11.11 mg/mL (35.46 mM); Clear solution; Need ultrasonic

### BIOLOGICAL ACTIVITY

#### Description

Amezinium metilsulfate has multiple mechanisms, including stimulation of alpha and beta-1 receptors and inhibition of noradrenaline and tyramine uptake. Target: alpha and beta-1 receptors. Amezinium metilsulfate is a sympathomimetic drug used for the treatment of low blood pressure. Cardiovascular effects of the new sympathomimetic Amezinium metilsulfate are investigated in 25 patients compared with a control group (n = 25). During spinal/epidural anaesthesia 5 mg amezinium is given i.v. if blood pressure dropped greater than 20 mmHg. from starting-point. A significant recovery of blood pressure (epidural anaesthesia: syst 21%, diast 9%; spinal anaesthesia: syst 13%, diast 6.6%) and a decrease in heart rate (6.8% resp. 4.5%) are thought due to peripheral vasoconstriction. Amezinium proves a stimulating drug for alpha- and beta 1-receptors by stabilising the systemic blood pressure in spinal/epidural anaesthesia.

### REFERENCES

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[1]. Schaps D, et al. Therapeutic use of amezinium methylsulfate--a new, long acting, sympathomimetic--in paraspinal conduction anesthesia. Anasth Intensivther Notfallmed. 1984 Oct;19(5):235-9.

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**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](mailto:tech@MedChemExpress.com)

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