Amezinium methylsulfate

Cat. No.: HY-A0275

CAS No.: 30578-37-1

Molecular Formula: $C_{12}H_{15}N_3O_5S$

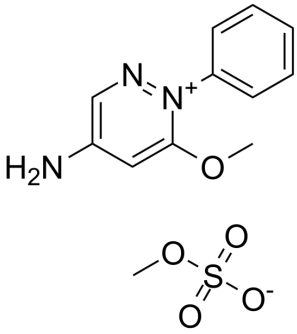
Molecular Weight: 313.33

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_2O : 50 mg/mL (159.58 mM; Need ultrasonic)

DMSO : ≥ 34 mg/mL (108.51 mM)

* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Mass / Solvent / Concentration	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 ofnoradrenaline and tyramine uptake. Target: alpha and beta-1 receptorsAmezinium metilsulfate is a sympathomimetic drug used for the treatment of low blood pressure. Cardiovascular effects of the new sympathomimetic Amezinium metilsulphate 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

[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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