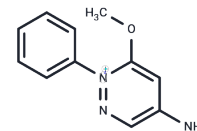
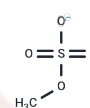


## Amezinium methylsulfate

## Chemical Properties

|                   |  |
|-------------------|--|
| CAS No. :         | 30578-37-1   |
| Formula:          | C12H15N3O5S  |
| Molecular Weight: | 313.33   |
| Storage:          | Store at low temperature<br>Powder: -20°C for 3 years   In solvent: -80°C for 1 year<br><small>Actual storage temperature shall be subject to the COA.</small> |



## Biological Description

|               |  |
|---------------|--|
| Description   | Amezinium methylsulfate (Lu-1631) has multiple mechanisms, including stimulation of alpha and beta-1 receptors and inhibition of noradrenaline and tyramine uptake.  |
| Targets(IC50) | Adrenergic Receptor  |
| In vivo       | In 5 patients with multiple system atrophy, administration of 15 mg/day of amezinium methylsulfate, an adrenergic agent, during 6 months for the treatment of postural hypotension exacerbated post-micturition residuals as compared to that before treatment (178 ml versus 113 ml for a change of 37 %) [1]. The reduction ratio of FTBF was significantly increased by amezinium [placebo, 75.9%; amezinium, 85.1%; midodrine, 78.1%]. The infusion rate of noradrenaline producing a half-maximum vasoconstriction was significantly decreased by amezinium (placebo, 40.6 ng/min; amezinium, 21.0 ng/min) [2]. |

## Solubility Information

|            |   |
|------------|---|
| Solubility | DMSO: 50 mg/mL (159.58 mM), Sonication is recommended.<br>(< 1 mg/ml refers to the product slightly soluble or insoluble) |
|------------|---|

### Preparing Stock Solutions

---

|       | 1mg       | 5mg        | 10mg       |
|-------|-----------|------------|------------|
| 1 mM  | 3.1915 mL | 15.9576 mL | 31.9152 mL |
| 5 mM  | 0.6383 mL | 3.1915 mL  | 6.383 mL   |
| 10 mM | 0.3192 mL | 1.5958 mL  | 3.1915 mL  |
| 50 mM | 0.0638 mL | 0.3192 mL  | 0.6383 mL  |

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Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

### Reference

Sakakibara R, et al. Amezinium metilsulfate, a sympathomimetic agent, may increase the risk of urinary retention in multiple system atrophy. Clin Auton Res. 2003 Feb;13(1):51-3.

Harada K, et al. Effect of amezinium metilsulfate on the finger skin vasoconstrictor response to cold stimulation and venoconstrictor response to noradrenaline. Jpn Circ J. 1998 Nov;62(11):824-8.

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