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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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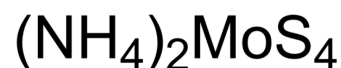
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Ammonium tetrathiomolybdate(VI)

| | |
|--------------------|--|
| Cat. No.: | HY-W076067 |
| CAS No.: | 15060-55-6 |
| Molecular Formula: | H ₈ MoN ₂ S ₄ |
| Molecular Weight: | 260.27 |
| Target: | Cuproptosis |
| Pathway: | Apoptosis |
| Storage: | 4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light) |



SOLVENT & SOLUBILITY

| | | | | | | |
|---|---|--------------------------|-----------|-----------|------------|------------|
| In Vitro | DMSO : 5 mg/mL (19.21 mM; Need ultrasonic) | | | | | |
| | H ₂ O : < 0.1 mg/mL (ultrasonic) (insoluble) | | | | | |
| | Preparing Stock Solutions | Solvent Concentration | Mass | 1 mg | 5 mg | 10 mg |
| | | | 1 mM | 3.8422 mL | 19.2108 mL | 38.4216 mL |
| | | | 5 mM | 0.7684 mL | 3.8422 mL | 7.6843 mL |
| 10 mM | | | 0.3842 mL | 1.9211 mL | 3.8422 mL | |
| Please refer to the solubility information to select the appropriate solvent. | | | | | | |
| In Vivo | 1. Add each solvent one by one: 50% PEG300 >> 50% PBS Solubility: 25 mg/mL (96.05 mM); Suspended solution; Need ultrasonic | | | | | |
| | 2. Add each solvent one by one: 0.5% CMC-Na/0.5% Tween-80 in Saline water Solubility: 6.25 mg/mL (24.01 mM); Suspended solution; Need ultrasonic | | | | | |
| | 3. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 0.5 mg/mL (1.92 mM); Clear solution | | | | | |
| | 4. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 0.5 mg/mL (1.92 mM); Clear solution | | | | | |

BIOLOGICAL ACTIVITY

| | |
|-------------|---|
| Description | Ammonium tetrathiomolybdate(VI) is a copper chelator and also is a class of sulfide donor. Ammonium tetrathiomolybdate(VI) has neuroprotection effects. Ammonium tetrathiomolybdate(VI) can be used for the research of brain ischemia ^[1] . |
| In Vivo | Ammonium tetrathiomolybdate(VI) (ATTM) (i.v.; 10 mg/kg) confers significant neuroprotection ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. |

| | |
|-----------------|---|
| Animal Model: | Wistar Rats ^[1] |
| Dosage: | 10 mg/kg |
| Administration: | Intravenous |
| Result: | Showed improved functional activity at both 24 h and 7-days post-reperfusion, in parallel with a significant reduction in infarct size. |

CUSTOMER VALIDATION

- Biomaterials. 2023 Jan;292:121945.
- Redox Biol. 2023 Dec, 68, 102952.

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REFERENCES

[1]. Bruna Pescador Mendonça, et al. Neuroprotective effects of ammonium tetrathiomolybdate, a slow-release sulfide donor, in a rodent model of regional stroke. Intensive Care Med Exp. 2020 Apr 9;8(1):13.

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

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