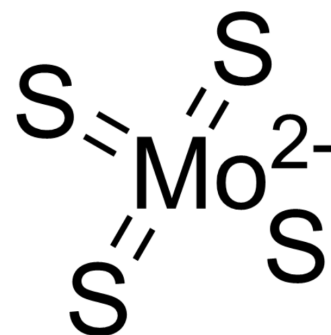


Tetrathiomolybdate

Cat. No.:	HY-128530
CAS No.:	16330-92-0
Molecular Formula:	MoS ₄ ²⁻
Molecular Weight:	224.22
Target:	Others; Cuproptosis
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Tetrathiomolybdate, an orally active anti-copper agent, reduces copper levels in the body. Tetrathiomolybdate has a protective effect on collagen-induced arthritis in mice. Tetrathiomolybdate also reduces blood sugar, but has no effect on mice with hereditary diabetes (db/db). Tetrathiomolybdate inhibit angiogenesis, also shows antiangiogenic effects in malignant pleural mesothelioma ^{[1][2][3]} .								
In Vivo	<p>Tetrathiomolybdate (0.2 mg/mouse/day; p.o.; for 10 weeks) protects mice from collagen-induced arthritis with preventive effect^[1].</p> <p>Tetrathiomolybdate (0.03 mg/mL; medicined in water; p.o.; 8 weeks) inhibits the progress of collagen-induced arthritis in mice by reducing swelling and erythema^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <table border="1"> <tr> <td>Animal Model:</td> <td>Collagen-induced arthritis model in mice^[1]</td> </tr> <tr> <td>Dosage:</td> <td>0.2 mg/mouse/day or 0.03 mg/mL, added in water</td> </tr> <tr> <td>Administration:</td> <td>Oral gavage, for 10 weeks; Collagen injected at weeks 2</td> </tr> <tr> <td>Result:</td> <td>Showed significant preventive effect and protective effect in mice.</td> </tr> </table>	Animal Model:	Collagen-induced arthritis model in mice ^[1]	Dosage:	0.2 mg/mouse/day or 0.03 mg/mL, added in water	Administration:	Oral gavage, for 10 weeks; Collagen injected at weeks 2	Result:	Showed significant preventive effect and protective effect in mice.
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CUSTOMER VALIDATION

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

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REFERENCES

[1]. Zeng C, et al. Tetrathiomolybdate is partially protective against hyperglycemia in rodent models of diabetes. *Exp Biol Med* (Maywood). 2008 Aug;233(8):1021-5.

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

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