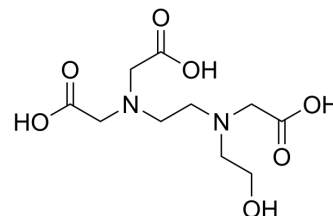


EDTA-OH

Cat. No.:	HY-W013851
CAS No.:	150-39-0
Molecular Formula:	C ₁₀ H ₁₈ N ₂ O ₇
Molecular Weight:	278.26
Target:	Others
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	EDTA-OH is a chelating agent, which forms thermodynamically stable chelates with metal ions like calcium, magnesium, iron, zinc and copper ^[1] . EDTA-OH exhibits ability of phytoremediation in heavy-metal-contaminated soils ^[2] . EDTA-OH is able to cross brain-blood barrier ^[3] .								
In Vivo	<p>EDTA-OH (50 mg/kg, i.p. for 5 days) decreases the aluminium concentration in blood and brain and oxidative stress in brain. EDTA-OH is blood-brain barrier permeable, which could be an antidote for aluminium overload^[3]. 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>Aluminium overload in wistar rats^[3]</td> </tr> <tr> <td>Dosage:</td> <td>50 mg/kg</td> </tr> <tr> <td>Administration:</td> <td>i.p. for 5 days</td> </tr> <tr> <td>Result:</td> <td>Inhibited GST activity, reduced the concentration of aluminium in blood and brain.</td> </tr> </table>	Animal Model:	Aluminium overload in wistar rats ^[3]	Dosage:	50 mg/kg	Administration:	i.p. for 5 days	Result:	Inhibited GST activity, reduced the concentration of aluminium in blood and brain.
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REFERENCES

- [1]. Li X, Zhang Z, et al., Complexation of Light Trivalent Lanthanides with N-(2-Hydroxyethyl)ethylenediamine-N,N',N'-triacetic Acid in Aqueous Solutions: Thermodynamic Analysis and Coordination Modes. *Inorg Chem.* 2019 Nov 18;58(22):15618-15628.
- [2]. Chen H, et al., EDTA and HEDTA effects on Cd, Cr, and Ni uptake by *Helianthus annuus*. *Chemosphere.* 2001 Oct;45(1):21-8.
- [3]. Flora SJ, et al., Aluminum-induced oxidative stress in rat brain: response to combined administration of citric acid and HEDTA. *Comp Biochem Physiol C Toxicol Pharmacol.* 2003 Mar;134(3):319-28.

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

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