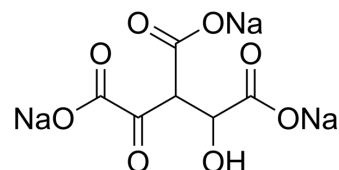


Oxalomalic acid trisodium

Cat. No.:	HY-131521
CAS No.:	89304-26-7
Molecular Formula:	C ₆ H ₃ Na ₃ O ₈
Molecular Weight:	272.05
Target:	Isocitrate Dehydrogenase (IDH)
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Oxalomalic acid (Oxalomalate) trisodium is a aconitase and NADP-dependent isocitrate dehydrogenase inhibitor. Oxalomalic acid trisodium inhibits nitrite production and iNOS protein expression in lipopolysaccharide (HY-D1056)-activated J774 macrophages ^[1] .								
In Vitro	<p>Oxalomalic acid trisodium (2.2, 5 mM; 2+24 h) reduces LPS-induced nitrite production and iNOS protein expression in J774 cells^[1].</p> <p>Oxalomalic acid trisodium (5 mM; 6, 12 h) shows no effect on the expression of iNOS mRNA in LPS-stimulated J774 macrophages^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <p>Western Blot Analysis^[1]</p> <table border="1"> <tr> <td>Cell Line:</td> <td>J774 cells</td> </tr> <tr> <td>Concentration:</td> <td>2.2, 5 mM (stimulated with LPS (1 µg/ml))</td> </tr> <tr> <td>Incubation Time:</td> <td>2+24 h</td> </tr> <tr> <td>Result:</td> <td>Reduced in a significant and concentration-dependent manner nitrite production, reduced iNOS protein expression.</td> </tr> </table>	Cell Line:	J774 cells	Concentration:	2.2, 5 mM (stimulated with LPS (1 µg/ml))	Incubation Time:	2+24 h	Result:	Reduced in a significant and concentration-dependent manner nitrite production, reduced iNOS protein expression.
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Result:	Reduced in a significant and concentration-dependent manner nitrite production, reduced iNOS protein expression.								

REFERENCES

[1]. Irace C, et al. Oxalomalate affects the inducible nitric oxide synthase expression and activity. Life Sci. 2007 Mar 13;80(14):1282-91.

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

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