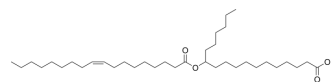


12-OAHSA

Cat. No.:	HY-113878
CAS No.:	101901-73-9
Molecular Formula:	C ₃₆ H ₆₈ O ₄
Molecular Weight:	564.92
Target:	Endogenous Metabolite
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	12-OAHSA is a component of olive oil. 12-OAHSA has oral activity, and improves glucose homeostasis in insulin resistant obese mice ^[1] .								
In Vitro	12-OAHSA (25 μM, 24 h) inhibits LPS-induced IL-1b, IL-6, Nos2, and Tnf-α in Raw 264.7 macrophages ^[1] . 12-OAHSA (25 μM, 6 h) reduces IKKβ phosphorylation and increases phosphorylation of p65 in Raw 264.7 macrophages ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.								
In Vivo	12-OAHSA (30 mg/kg, p.o., for 10 d) inhibits obesity-induced insulin resistance in HFD induced obese C57BL/6 mice ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.								
	<table border="1"> <tr> <td>Animal Model:</td> <td>10-week HFD induced obese C57BL/6 mice^[1]</td> </tr> <tr> <td>Dosage:</td> <td>30 mg/kg</td> </tr> <tr> <td>Administration:</td> <td>p.o., for 10 d</td> </tr> <tr> <td>Result:</td> <td>Decreased adipose tissue macrophage (ATMs), and CD4+ and CD8+ T lymphocytes in eWAT. Inhibits obesity-induced adipose tissue inflammation.</td> </tr> </table>	Animal Model:	10-week HFD induced obese C57BL/6 mice ^[1]	Dosage:	30 mg/kg	Administration:	p.o., for 10 d	Result:	Decreased adipose tissue macrophage (ATMs), and CD4+ and CD8+ T lymphocytes in eWAT. Inhibits obesity-induced adipose tissue inflammation.
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REFERENCES

[1]. Moyo KM, et al. 12-OAHSA is a component of olive oil and mitigates obesity-induced inflammation. J Nutr Biochem. 2022 Dec;110:109127.

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

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