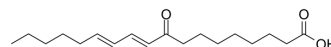


(10E,12E)-9-Oxo-10,12-octadecadienoic acid

Cat. No.:	HY-N9768
CAS No.:	54232-58-5
Molecular Formula:	C ₁₈ H ₃₀ O ₃
Molecular Weight:	294.43
Target:	Fungal; PPAR
Pathway:	Anti-infection; Cell Cycle/DNA Damage; Metabolic Enzyme/Protease; Vitamin D Related/Nuclear Receptor
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	(10E,12E)-9-Oxo-10,12-octadecadienoic acid (9-oxo-ODA) is a PPAR α agonist that can be isolated from the basidiomycete <i>Gomphus floccosus</i> . (10E,12E)-9-Oxo-10,12-octadecadienoic acid enhances fatty acid oxidation through PPAR α activation, thereby inhibiting triglyceride accumulation. (10E,12E)-9-Oxo-10,12-octadecadienoic acid also has antifungal (Fungal) activity ^{[1][2]} .
In Vitro	(10E,12E)-9-Oxo-10,12-octadecadienoic acid has good activity against <i>Phytophthora parasitica</i> and <i>Cladosporium herbarum</i> ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Cantrell CL, et al. Isolation and identification of antifungal fatty acids from the basidiomycete *Gomphus floccosus*. *J Agric Food Chem*. 2008 Jul 9;56(13):5062-8.
- [2]. Kim YI, et al. Potent PPAR α activator derived from tomato juice, 13-oxo-9,11-octadecadienoic acid, decreases plasma and hepatic triglyceride in obese diabetic mice. *PLoS One*. 2012;7(2):e31317.

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

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