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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
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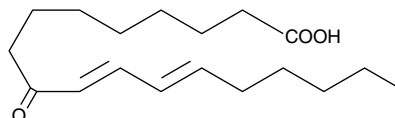
Product Information



9-oxo-10(E),12(E)-Octadecadienoic Acid

Item No. 10685

CAS Registry No.:	54232-58-5
Formal Name:	9-oxo-10E,12E-octadecadienoic acid
Synonym:	9-oxoODA
MF:	C ₁₈ H ₃₀ O ₃
FW:	294.4
Purity:	≥90%
Stability:	≥1 year at -20°C
Supplied as:	A solution in ethanol
UV/Vis.:	λ _{max} : 276 nm



Laboratory Procedures

For long term storage, we suggest that 9-oxo-10(E),12(E)-octadecadienoic acid (9-oxoODA) be stored as supplied at -20°C. It should be stable for at least one year.

9-oxoODA is supplied as a solution in ethanol. To change the solvent, simply evaporate the ethanol under a gentle stream of nitrogen and immediately add the solvent of choice. Solvents such as DMSO and dimethyl formamide purged with an inert gas can be used. The solubility of 9-oxoODA in these solvents is approximately 16 mg/ml.

9-oxoODA is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, the ethanolic solution of 9-oxoODA should be diluted with the aqueous buffer of choice. 9-oxoODA has a solubility of approximately 0.5 mg/ml in a 1:1 solution of ethanol:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

9-oxoODA is a natural agonist, abundant in tomatoes, that activates PPARα at 10-20 μM.¹ It is produced from conjugated linoleic acid, which is also known to be a PPARα agonist.^{1,2} 9-oxoODA increases the expression of genes regulated by PPARα in primary mouse hepatocytes, altering lipid metabolism.¹

References

1. Kim, Y.-I., Hirai, S., Takahashi, H., *et al.* 9-oxo-10(E),12(E)-octadecadienoic acid derived from tomato is a potent PPARα agonist to decrease triglyceride accumulation in mouse primary hepatocytes. *Mol. Nutr. Food Res.* **54**, (2010).
2. Moya-Camarena, S.Y., Heuvel, J.P.V., Blanchard, S.G., *et al.* Conjugated linoleic acid is a potent naturally occurring ligand and activator of PPARα. *J. Lipid Res.* **40**, 1426-1433 (1999).

Related Products

For a list of related products please visit: www.caymanchem.com/catalog/10685

WARNING: THIS PRODUCT IS FOR LABORATORY RESEARCH ONLY: NOT FOR ADMINISTRATION TO HUMANS. NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA

This material should be considered hazardous until information to the contrary becomes available. Do not ingest, swallow, or inhale. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. This information contains some, but not all, of the information required for the safe and proper use of this material. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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