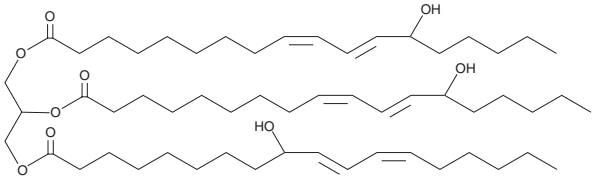
PRODUCT INFORMATION

Hydroxy Linoleins

Item No. 89420

Synonyms:	Hydroxy Trilinolein; Hydroxy 1,2,3-Trilinoleoyl Glycerol
Purity:	≥98% (A mixture of isomers)
UV/Vis.:	λ_{max}: 234 nm ε: 25,000
Supplied as:	A 5 mg/ml solution in ethanol
Storage:	-20°C
Stability:	≥4 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

Hydroxy linoleins 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. Hydroxy linoleins is miscible in these solvents.

Hydroxy linoleins are sparingly soluble in aqueous buffers. An ethanolic solution of hydroxy linoleins at 0.1 mg/ml can be diluted with PBS (pH 7.2) up to 10 times resulting in a colloidal suspension. The suspension should be kept at room temperature and used within two hours or else the compound will separate from the bulk of the liquid.

Description

Hydroxy linoleins are generated by the reduction of linolein hydroperoxides (Item No. 89430) in 1,2,3-trilinoleoyl glycerol (Item No. 26951).[1] Hydroxy fatty acid-containing triacylglycerols are more stable than those containing hydroperoxide fatty acids.[2]

References

1. Takahashi, T., Kato, S., Ito, J., *et al*. Dietary triacylglycerol hydroperoxide is not absorbed, yet it induces the formation of other triacylglycerol hydroperoxides in the gastrointestinal tract. *Redox Biol.* **57**, 102471 (2022).
2. Neff, W.E. and Byrdwell, W.C. Characterization of model triacylglycerol (triolein, trilinolein and trilinolenin) autoxidation products via high-performance liquid chromatography coupled with atmospheric pressure chemical ionization mass spectrometry. *J. Chromatogr. A* **818**, 169-186 (1998).

WARNING
THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA
This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent *via* email to your institution.

WARRANTY AND LIMITATION OF REMEDY
Buyer agrees to purchase the material subject to Cayman's Terms and Conditions. Complete Terms and Conditions including Warranty and Limitation of Liability information can be found on our website.

Copyright Cayman Chemical Company, 07/13/2026

CAYMAN CHEMICAL
1180 EAST ELLSWORTH RD
ANN ARBOR, MI 48108 · USA
PHONE: [800] 364-9897
[734] 971-3335
FAX: [734] 971-3640
CUSTSERV@CAYMANCHEM.COM
WWW.**CAYMANCHEM**.COM