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Produktinformation



Forschungsprodukte & Biochemikalien



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Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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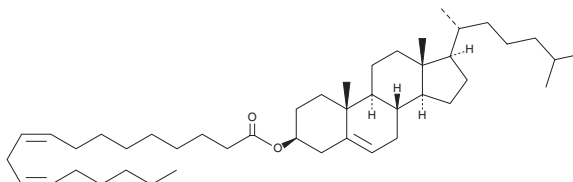
PRODUCT INFORMATION



Cholesteryl Linoleate

Item No. 22597

CAS Registry No.: 604-33-1
Formal Name: cholest-5-en-3 β -ol, 3-[(9Z,12Z)-9,12-octadecadienoate]
Synonyms: Cholesterol Linoleate, Linoleic Acid cholesteryl ester, NSC 18183
MF: C₄₅H₇₆O₂
FW: 649.1
Purity: \geq 98%
UV/Vis.: λ_{max} : 232 nm
Supplied as: A waxy crystal
Storage: -20°C
Stability: \geq 2 years



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

Laboratory Procedures

Cholesteryl linoleate is supplied as a waxy crystal. A stock solution may be made by dissolving the cholesteryl linoleate in the solvent of choice. Cholesteryl linoleate is soluble in the organic solvent chloroform, which should be purged with an inert gas, at a concentration of approximately 10 mg/ml.

Description

Cholesteryl linoleate is a cholesterol ester found in LDL.¹ Cholesteryl linoleate is transferred to the plasma membrane of macrophages and CHO cells expressing 15-lipoxygenase (15-LO) via LDL receptor-related protein (LRP), where it undergoes oxidation to form cholesteryl linoleate hydroperoxides (Item No. 48001). Cholesteryl linoleate expression increases 2.7-fold in Apob-lipoproteins in mice overexpressing the human ABCA1 reverse cholesterol transporter, directly correlating with increased levels of hepatic cholesterol and number of atherosclerotic lesions.²

References

1. Takahashi, Y., Zhu, H., Xu, W., *et al.* Selective uptake and efflux of cholesteryl linoleate in LDL by macrophages expressing 12/15-lipoxygenase. *Biochem. Biophys. Res. Commun.* **338**(1), 128-135 (2005).
2. Joyce, C.W., Wagner, E.M., Basso, F., *et al.* ABCA1 overexpression in the liver of LDLr-KO mice leads to accumulation of pro-atherogenic lipoproteins and enhanced atherosclerosis. *J. Biol. Chem.* **281**(44), 33053-33065 (2006).

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.

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