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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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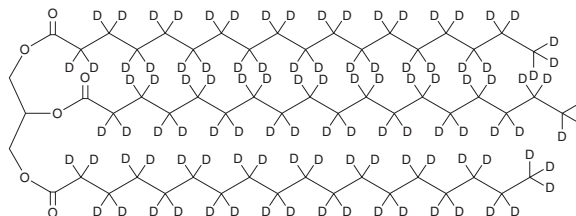
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PRODUCT INFORMATION



1,2,3-Tristearoyl Glycerol-d₁₀₅ Item No. 28867

CAS Registry No.: 125941-88-0
Formal Name: octadecanoic-d₃₅ acid, 1,2,3-propanetriyl ester
Synonyms: Glycerol Trioctadecanoate-d₁₀₅, TG(18:0/18:0/18:0)-d₁₀₅, Trioctadecanoyl Glycerol-d₁₀₅, Tristearin-d₁₀₅
MF: C₅₇H₅D₁₀₅O₆
FW: 997.1
Chemical Purity: ≥95% (1,2,3-Tristearoyl Glycerol)
Deuterium Incorporation: ≥99% deuterated forms (d₁-d₁₀₅); ≤1% d₀
Supplied as: A crystalline solid
Storage: -20°C
Stability: ≥2 years



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

Laboratory Procedures

1,2,3-Tristearoyl glycerol-d₁₀₅ is intended for use as an internal standard for the quantification of 1,2,3-tristearoyl glycerol (Item No. 23335) by GC- or LC-MS. The accuracy of the sample weight in this vial is between 5% over and 2% under the amount shown on the vial. If better precision is required, the deuterated standard should be quantitated against a more precisely weighed unlabeled standard by constructing a standard curve of peak intensity ratios (deuterated versus unlabeled).

1,2,3-Tristearoyl glycerol-d₁₀₅ is supplied as a crystalline solid. A stock solution may be made by dissolving the 1,2,3-tristearoyl glycerol-d₁₀₅ in the solvent of choice, which should be purged with an inert gas. 1,2,3-Tristearoyl glycerol-d₁₀₅ is soluble in the organic solvent chloroform at a concentration of approximately 10 mg/ml.

Description

1,2,3-Tristearoyl glycerol is a triacylglycerol that contains stearic acid (Item No. 10011298) at the *sn*-1, *sn*-2, and *sn*-3 positions. It has been found in beef fat and fully hydrogenated soybean, rapeseed, cottonseed, and palm oils.¹ 1,2,3-Tristearoyl glycerol has been used to form the lipid matrices of solid lipid nanoparticles.² Formulations containing 1,2,3-tristearoyl glycerol have been used as skin conditioners and thickening agents in cosmetics.

References

- deMan, L., deMan, J.M., and Blackman, B. Polymorphic behavior of some fully hydrogenated oils and their mixtures with liquid oil. *J. Am. Oil. Chem. Soc.* **66**, 1777–1780 (1989).
- Eposito, E., Sguizzato, M., Drechsler, M., *et al.* Data on scaling up and in vivo human study of progesterone lipid nanoparticles. *Data Brief* **14**, 639-642 (2017).

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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