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Produktinformation



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Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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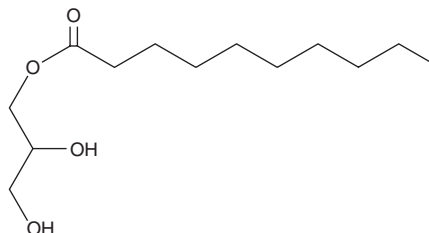
PRODUCT INFORMATION



1-Decanoyl-*rac*-glycerol

Item No. 26888

CAS Registry No.: 2277-23-8
Formal Name: decanoic acid, 2,3-dihydroxypropyl ester
Synonyms: MG(10:0/0:0/0:0), 1-Monocaprin, 1-Monodecanoïn
MF: C₁₃H₂₆O₄
FW: 246.3
Purity: ≥98%
Supplied as: A liquid
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-Decanoyl-*rac*-glycerol is supplied as a liquid. A stock solution may be made by dissolving the 1-decanoyl-*rac*-glycerol in the solvent of choice, which should be purged with an inert gas. 1-Decanoyl-*rac*-glycerol is soluble in chloroform.

Description

1-Decanoyl-*rac*-glycerol is a monoacylglycerol that contains decanoic acid (Item No. 20838) at the *sn*-1 position. It inhibits the growth of *B. cereus*, *S. typhimurium*, and *E. coli* when used at a concentration of 1 mg/ml and *S. aureus* when used at a concentration of 0.5 mg/ml.¹ 1-Decanoyl-*rac*-glycerol is an agonist of transient receptor potential vanilloid 1 (TRPV1) that induces calcium influx in HEK293 cells expressing the human receptor (EC₅₀ = 12.6 μM).² It is an emulsifying agent and has been used to increase the storage stability of mayonnaise and viscoelasticity of processed cheese.^{3,4}

References

1. Nitbani, F.O., Jumina, Siswanta, D., *et al.* Synthesis and antibacterial activity test of 1-monocaprin. *Int. J. Pharm. Sci. Rev. Res.* **39(1)**, 74-80 (2016).
2. Iwasaki, Y., Saito, O., Tanabe, M., *et al.* Monoacylglycerols activate capsaicin receptor, TRPV1. *Lipids* **43(6)**, 471-483 (2008).
3. Park, K.-M., Lim, S.-Y., Chung, M.S., *et al.* Effect of 1-monocaprin addition on the emulsion stability and the storage stability of mayonnaise. *Food Sci. Biotechnol.* **19(5)**, 1227-1232 (2010).
4. Bunka, F., Pavlínek, V., Hrabě, J., *et al.* Effect of 1-monoacylglycerides on viscoelastic properties of processed cheese. *Int. J. Food Prop.* **10(4)**, 819-828 (2007).

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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