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Produktinformation



Forschungsprodukte & Biochemikalien



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Diagnostik & molekulare Diagnostik



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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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PRODUCT INFORMATION



^{SS}PalmO-Phe Item No. 37670

CAS Registry No.: 2377474-67-2
Formal Name: 4-[[[(9Z)-1-oxo-9-octadecen-1-yl]oxy]-benzeneacetic acid, 1,1'-[dithiobis(2,1-ethanediyl-1,4-piperidinediyl-2,1-ethanediyl)] ester

MF: C₇₀H₁₁₂N₂O₈S₂

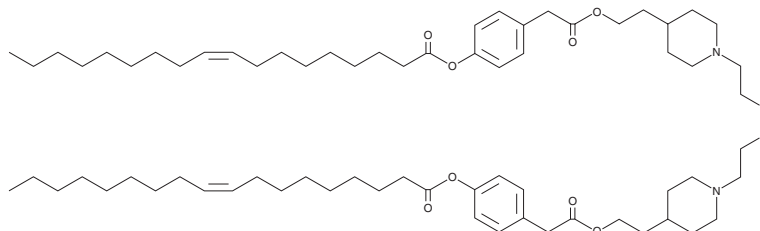
FW: 1,173.8

Purity: ≥95%

Supplied as: A solution in ethanol

Storage: -20°C

Stability: ≥2 years



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

Description

^{SS}PalmO-Phe is an ionizable cationic self-degradable disulfide-cleavable (SS-cleavable) proton-activated lipid-like material (^{SS}Palm; pK_a = 5.97 in a TNS binding assay).^{1,2} It has been used in combination with other lipids in the formation of lipid nanoparticles (LNPs) for the delivery of mRNA, siRNA, and antisense oligonucleotides (ASOs). Intravenous administration of mouse erythropoietin (EPO) mRNA in ^{SS}PalmO-Phe-containing LNPs increases serum EPO levels in mice.¹

References

1. Tanaka, H., Takahashi, T., Konishi, M., *et al.* Self-degradable lipid-like materials based on “hydrolysis accelerated by the intra-particle enrichment of reactant (HyPER)” for messenger RNA delivery. *Adv. Funct. Mater.* **30**, 1910575 (2020).
2. Tanaka, H., Takata, N., Sakurai, Y., *et al.* Delivery of oligonucleotides using a self-degradable lipid-like material. *Pharmaceutics* **13**(4), 544 (2021).

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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