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Produktinformation



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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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PRODUCT INFORMATION



PEG(2000)-C-DMG

Item No. 37149

Formal Name: (R)-142-oxo-2,5,8,11,14,17,20, 23,26,29, 32,35,38,41,44,47,50,53,56,59,62, 65,68, 71,74,77,80,83,86,89,92,95,98,101,104, 107,110,113,116,119,122,125,128,131, 134, 137,143-heptatetracontaoxa-141-azahexatetracontahectane-145,146-diyl ditetradecanoate

Synonyms: PEG₂₀₀₀-C-DMG, Polyethylene Glycol-2000-C-DMG

MF: C₁₂₆H₂₄₉NO₅₂

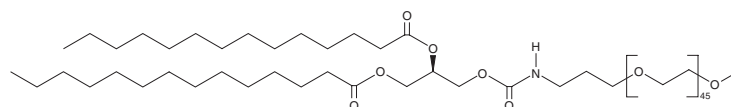
FW: 2,610.3

Purity: ≥95%

Supplied as: A solid

Storage: -20°C

Stability: ≥4 years



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

Laboratory Procedures

PEG(2000)-C-DMG is supplied as a solid. A stock solution may be made by dissolving the PEG(2000)-C-DMG in the solvent of choice, which should be purged with an inert gas. PEG(2000)-C-DMG is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF). The solubility of PEG(2000)-C-DMG in ethanol is approximately 10 mg/ml and approximately 25 mg/ml in DMSO and DMF.

Further dilutions of the stock solution into aqueous buffers or isotonic saline should be made prior to performing biological experiments. Ensure that the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. Organic solvent-free aqueous solutions of PEG(2000)-C-DMG can be prepared by directly dissolving the solid in aqueous buffers. The solubility of PEG(2000)-C-DMG in PBS (pH 7.2) is approximately 10 mg/ml. We do not recommend storing the aqueous solution for more than one day.

Description

PEG(2000)-C-DMG is a PEGylated derivative of 1,2-dimyristoyl-*sn*-glycerol (1,2-DMG; Item No. 15077).¹ It has been used in combination with other lipids in the formation of lipid nanoparticles (LNPs) for the delivery of siRNA. LNPs containing PEG(2000)-C-DMG and encapsulating siRNA targeting the genes encoding programmed cell death protein ligand 1 (PD-L1) and PD-L2 decrease PD-L1 and PD-L2 levels in monocyte-derived dendritic cells. Formulations containing PEG(2000)-C-DMG have been used in the development of LNPs for the delivery of siRNA-based vaccines.

Reference

1. Hobo, W., Novobrantseva, T., Fredrix, H., *et al.* Improving dendritic cell vaccine immunogenicity by silencing PD-1 ligands using siRNA-lipid nanoparticles combined with antigen mRNA electroporation. *Cancer Immunol. Immunother.* **62**(2), 285-297 (2013).

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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