

# Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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# Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

# Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

# SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

linkedin.com/company/szaboscandic in



# PRODUCT INFORMATION



## Lipid C2

Item No. 39783

CAS Registry No.: 3003022-09-8 Formal Name: N1,N4-bis[2-[bis(2-

hydroxytetradecyl)aminolethyll-

1,4-piperazinedipropanamide

MF:  $C_{70}H_{142}N_6O_6$ FW: 1,163.9

≥95% (mixture of **Purity:** 

diastereomers)

Supplied as: A solid Storage: -20°C Stability: ≥3 years

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



Lipid C2 is supplied as a solid. A stock solution may be made by dissolving the lipid C2 in the solvent of choice, which should be purged with an inert gas. Lipid C2 is soluble in DMSO and chloroform.

### Description

Lipid C2 is an ionizable cationic lipid that has been used in the formation of lipid nanoparticles (LNPs) for mRNA delivery in vivo.1 LNPs containing lipid C2 and encapsulating an mRNA reporter selectively accumulate in the liver and spleen but not the heart, lungs, or kidneys in mice. LNPs containing lipid C2 and encapsulating mRNA encoding the Epstein-Barr virus (EBV) protein latent membrane protein 2 (LMP-2), in combination with an anti-programmed cell death protein 1 (PD-1) antibody, decrease tumor volume and reverse T cell exhaustion, as well as increase the percentage of CD3+CD8+ central and CD3+CD8+ effector memory T cells and decrease the percentage of CD3<sup>+</sup> T cells expressing Pd-1, in the spleen in a CT26 murine EBV-infected colon cancer model.

#### Reference

1. Xiang, Y., Tian, M., Huang, J., et al. LMP2-mRNA lipid nanoparticle sensitizes EBV-related tumors to anti-PD-1 therapy by reversing T cell exhaustion. J. Nanobiotechnology 21(1), 324 (2023).

WARNING
THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

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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#### **CAYMAN CHEMICAL**

1180 EAST ELLSWORTH RD ANN ARBOR, MI 48108 · USA PHONE: [800] 364-9897

[734] 971-3335

FAX: [734] 971-3640 CUSTSERV@CAYMANCHEM.COM WWW.**CAYMANCHEM**.COM