

# DMG PEG 2000

Catalog Number: 14493

## INTRODUCTION

DMG PEG-2000 (dimyristoyl glycerol polyethylene glycol, MW: 2000 g/mol) is a widely used PEGylated lipid and is a critical ingredient in vaccines and therapies (including mRNA COVID-19 vaccines). It is commonly included in formulations for liposomes, lipid nanoparticles (LNPs), nanostructured lipid carriers (NLCs), lipoplexes and related in vitro and in vivo nano lipid-based drug delivery system. DMG PEG-2000 reduces non-specific interactions with plasma proteins, opsonization and aggregation in vivo, extending circulation time and increasing bioavailability and delivery of payloads. DMG PEG-2000 is used in vehicles for DNA, RNA, mRNA siRNA, oligonucleotides and other molecules.

## SPECIFICATIONS:

Synonym(s):

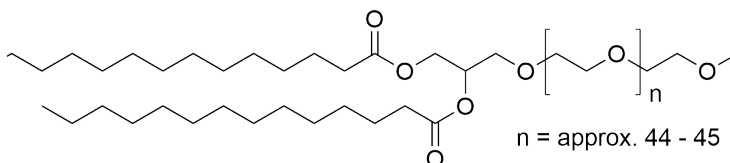
DMG PEG-2000 (1,2-Dimyristoyl-sn-glycero-3-methoxypolyethylene glycol-2000)

Molecular Formula:  $(C_2H_4O)_n C_{32}H_{62}O_5$

<b>CAS Number:</b>	1397695-86-1
<b>Purity:</b>	≥ 99%
<b>Appearance:</b>	white powder
<b>Storage:</b>	-20°C

## PREPARATION:

DMG PEG-2000 stock solutions may be prepared by dissolving in a solvent of choice. DMG PEG-2000 is soluble in DMSO (100 mg/ml), ethanol (1 mg/ml), water (16.6 mg/ml with sonication) and chloroform. Once dissolved, the mixture can be stored at -20°C for up to 1 month.



## ORDERING INFORMATION

Cat. #	Description
14493	DMG-PEG2000

Visit [Polysciences.com](https://www.polysciences.com) any time to place an order.

Contact us at [info@polysciences.com](mailto:info@polysciences.com) to learn about our cGMP grade DMG-PEG2000 manufactured under 21 CFR part 210, 211.