



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!  
See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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# PRODUCT INFORMATION



## LipidLaunch™ MC3 LNP (GFP)

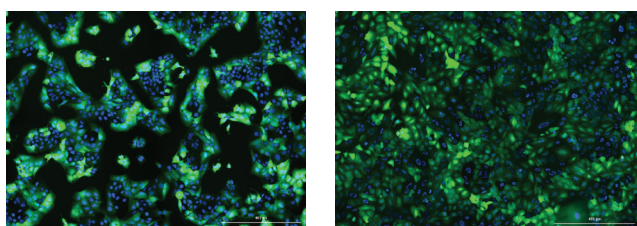
Item No. 40107

### Overview and Properties

**Synonym:** LipidLaunch™ DLin-MC3-DMA LNP  
**Storage:** -80°C (as supplied)  
**Stability:** ≥6 months  
**Supplied in:** TBS, pH 7.5, with 10% sucrose  
**Ex./Em. Max:** 488/507 nm

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

### Images



Transfection of cells with GFP-encapsulating MC3 particles. Huh7 hepatocytes (left) and A549 lung epithelial cells (right) were incubated with Cayman's LipidLaunch™ MC3 LNP (GFP) (Item No. 40107) at an RNA concentration of 250 ng/ml for 24 hours in cell culture media with 10% FBS. Cells were stained with 4 µM Hoechst 33342 (Item No. 15547) and imaged using 465 LED/GFP and 365 LED/DAPI cube on a BioTek Cytation 5 imaging plate reader.

LNP Characterization Parameters	
Size	75-150 nm
Polydispersity index (PDI)	<0.2
Encapsulation efficiency (%EE)	>85%
mRNA concentration	Batch specific, 25-100 µg/ml
mRNA/vial	5 µg

### Description

LipidLaunch™ MC3 LNP (GFP) is a solution containing lipid nanoparticles (LNPs) composed of the ionizable cationic amino lipid DLin-MC3-DMA (MC3; Item No. 34364), cholesterol (Item Nos. 9003100 | 39088), the phospholipid 1,2-distearoyl-*sn*-glycero-3-PC (Item Nos. 15100 | 39189), and the lipid excipient DMG-PEG(2000) (Item No. 33945) at a molar ratio of 50:38.5:10:1.5 and encapsulating mRNA encoding the fluorescent protein GFP. It is intended for proof-of-concept experiments to determine whether MC3-based LNPs can effectively lead to expression of a protein of interest in a target cell type, either *in vitro* or *in vivo*. GFP has excitation/emission maxima of 488/507 nm, respectively.

**Suggested *in vitro* use:** Thaw LNPs on ice with occasional gentle swirling (*do not vortex*). Using a gentle pipetting technique, dilute 1:100-1:500 in complete cell culture media (with serum) and add to subconfluent adherent cells in a fluorescence imaging-compatible tissue culture plate. Expression of GFP may be detectable as early as six hours after treatment. Optimal conditions are highly dependent on cell type.

**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.

**WARRANTY AND LIMITATION OF REMEDY**  
Buyer agrees to purchase the material subject to Cayman's Terms and Conditions. Complete Terms and Conditions including Warranty and Limitation of Liability information can be found on our website.

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