PRODUCT INFORMATION



LipidLaunch[™] LP-01 LNP (GFP)

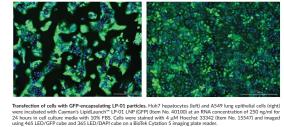
Item No. 40100

Overview and Properties

Synonym:	LipidLaunch™ CIN-16645 LNP (GFP)
Storage:	-80°C (as supplied)
Stability:	≥6 months
Supplied in:	TBS, pH 7.5, with 10% sucrose
Ex./Em. Max:	488/507 nm
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Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Images



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™ LP-01 LNP (GFP) is a solution containing lipid nanoparticles (LNPs) composed of the ionizable cationic amino lipid LP-01 (Item No. 37278), cholesterol (Item Nos. 9003100 | 39088), the phospholipid 1,2-distearoyl-sn-glycero-3-PC (DSPC; Item Nos. 15100 | 39189), and the lipid excipient DMG-PEG(2000) (Item No. 33945) at a molar ratio of 45:44:9:2 and encapsulating mRNA encoding the fluorescent protein GFP. It is intended for proof-of-concept experiments to determine whether LP-01-based LNPs can effectively lead to the expression of a protein of interest in a target cell type, either in vitro or in vivo. GFP displays 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.

SAFFTY 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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