

Product Datasheet

Lipid N2-3L (orb2815803)

Catalog Number	orb2815803
Description	Lipid N2-3L is an ionizable cationic lipid with a pKa of 8.99, utilized in the formation of supramolecular lipid nanoparticles (SMLNPs) for enclosing mRNA in both in vitro and in vivo applications. Lipid N2-3L-containing SMLNPs accumulate at the injection site and draining lymph nodes in mice, featuring a luciferase reporter gene. Additionally, SMLNPs made with Lipid N2-3L that encapsulate ovalbumin mRNA and the Toll-like receptor 7/8 (TLR7/8) agonist R-848 serve as adjuvants. These enhance dendritic cell maturation and antigen presentation, reducing tumor volume and increasing survival rates in MC-38-OVA colon cancer mouse models.
Storage	-20°C
Note	For research use only
Formula	$C_{48}H_{93}N_3O_8$
MW	840.27
CAS Number	2924606-55-1
SMILES	<chem>C(C(OCCN(CCOC(NCCCN(CCO)CCO)=O)CCOC(CCCCCC/C=C\CCCCCCCC)=O)=O)(CCCCCCCC)CCCCC</chem>
Expiration Date	12 months from date of receipt.

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