Q Search

#### An ionizable amino lipid

#### **Product Categories**

PRODUCT TYPE

Biochemicals (18.352) -

Lipids (3.349)

RESEARCH AREA

Infectious Disease (2.462)

Viral

Diseases (796)

Coronaviruses (178)

Immunology & Inflammation (5.312)

Pulmonary Diseases (528)

COVID-19 (150)

Adaptive

Immunity (724)

Lipid Biochemistry (3.730)

Lipid-Based Drug -

Delivery (130)

Cationic Lipids (12)

#### References & Product Citations

#### **Product Description** References

1. Vogel, A.B., Kanevsky, I., Che, Y., et al. BNT162b vaccines protect rhesus macaques from SARS-CoV-2. Nature **592(7853)**, 283-289 (2021).

## ALC-0315

Item No. 34337

Download Product Insert (PDF)

Download Safety Data Sheet (SDS) (PDF)

### Product Relationships

KIT, MIXTURE & LIBRARY OPTION(S) >

#### **Technical Information**

Formal Name

**CAS Number** 

Molecular Formula

Formula Weight

Purity

Formulation

Solubility (Learn about Variance in Solubility)

**SMILES** 

InChi Code

Shipping & Storage Information

Storage

InChi Key

Shipping Stability

Wet ice in continental US; may vary

2-hexyl-decanoic acid, 1,1'-[[(4-

2036272-55-4

A solution in ethanol

Chloroform: 50 mg/ml

CCCCCCC)=O

InChI=1S/C48H95NO5

8-28-20-18-14-10-6-2

QGWBEETXHOVFQS-

UHFFFAOYSA-N

/h45-46,50H,5-44H2,1-4H3

OCCCCN(CCCCCCC(C(CCCCCC)CC

CCCCCC)=O)CCCCCCCC(C(CCCCCC)

/c1-5-9-13-17-19-27-37-45(35-25-1

5-11-7-3)47(51)53-43-33-23-21-29-3

9-49(41-31-32-42-50)40-30-22-24-3

4-44-54-48(52)46(36-26-16-12-8-4)3

C48H95NO5

766.3

≥98%

hydroxybutyl)imino]di-6,1-hexanediyl]

elsewhere

≥ 1 year

Certificates of Analysis & Batch Specific Data

25 mg

Contact for status

50 mg

Ready to ship

100 mg

Contact for status

BULK & **CUSTOM**  **BOOKMARK** 

# FIND YOUR **DISTRIBUTOR** 

#### Lipid Resource Center **Discover Products &** Resources for Lipid Research

- · High-purity lipid standards
- · Lipid roles in biology
- · Lipids in health & disease
- · Lipids for pharmaceutical development
- · Protocols, advice, & resources

**EXPLORE NOW** 

#### **Product Description**

ALC-0315 is an ionizable amino lipid that has been used in combination with other lipids in the formation of lipid nanoparticles. 1 Administration of severe acute respiratory coronavirus 2 (SARS-CoV-2) mRNA in ALC-0315-containing lipid nanoparticles induces the production of IgG that binds to the SARS-CoV-2 receptorbinding domain (RBD) in rhesus macaques, with a boost in antigen-specific IgG geometric mean titers (GMT) seven and 14 days after a second dose. Formulations containing ALC-0315 have been used in the development of lipid nanoparticles for the delivery of mRNA-based vaccines.

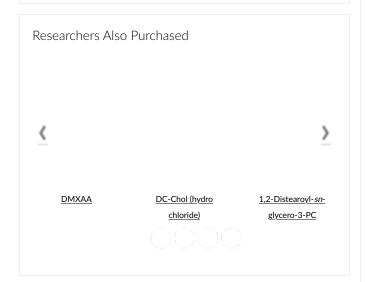
1 di 3 15/01/2022, 00:14

## Get Batch-Specific Data and Documents by Batch Number

Provide batch numbers separated by commas to download or request available product inserts, QC sheets, certificates of analysis, data packs, and GC-MS data.

GO

Add your batch numbers here...



**WARNING** This product is **not** for human or veterinary use.

# Technical Support & Resources

Information provided in the product description is from published literature. Due to the nature of scientific experimentation, your results (e.g., selectivity and effective concentrations) or specific application for this product may differ. If you have questions about how this product fits your application, please contact our technical support staff.

Visit our FAQ

#### Contact Us

Toll Free Phone (USA and Canada Only): (888)

<u>526-5351</u>

Direct Phone: <u>(734)</u> <u>975-3888</u>

Request Technical Support

2 di 3

CAYMAN CHEMICAL
About Us
Management Team
Careers
Buy Cayman Gear
Intellectual Property Programs
Contact Us
CONFERENCES
Conference Schedule
Conference Travel Grants
TOOLS & RESOURCES
News
Literature & Media
FAQ
Analysis Tools
Molar Mass & Mass Percent Composition Calculator
Synthetic Cannabinoid Flipbook
Cayman Spectral Library
Chemical Structure Database
Grants, Sponsorships & Promotions
Certificates of Analysis & Batch Data
OUR PARTNERS
CABRI
Cayman Europe
Cayman Pharma
International Distributors
TERMS, CONDITIONS & LOGISTICS
Order Terms
Privacy Statement
Financial Conflict of Interest Policy (PDF)
Browser Recommendation
Suggest a Product
Sitemap
CONTACT INFO
Cayman Chemical
1180 East Ellsworth Road
Ann Arbor, Michigan 48108 USA

Toll Free: (800) 364-9897 (USA and Canada only)

. ,

Fax: (734) 971-3640

© 2022 Cayman Chemical

3 di 3