

building blocks of medical care

premium lipids for LNP and liposome formulation



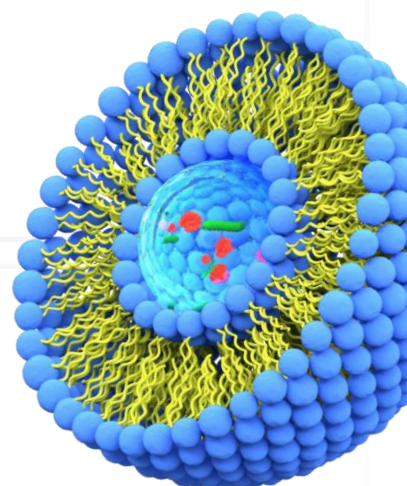
NovoArc
Lipids for Innovation

Who do we support?

Your API is very powerful, but difficult to administer to patients and thus needs a special formulation?

With our patented lipid-based formulation we help pharmaceutical companies, who currently cannot bring their API to market, as it needs

- ❖ **Improved solubility**
- ❖ **Higher stability**
- ❖ **Increased (oral) bioavailability**



Our customers love our technology

We have the patented and successfully tested solution – our lipid formulations can overcome these limitations!

- ❖ Hydrophobic APIs are integrated into **water-soluble particles**
- ❖ Upon encapsulation in our lipids the API gets stabilized and protected during storage. **The lipid shield technology** allows safe passage through the GI-tract enabling **oral drug delivery**
- ❖ LNPs with our lipids are **up to 10x more efficient** than conventional formulations
This means **significantly reduced manufacturing costs** and **decreased side effects**

**APIs, now marketed as injectables
can be administered orally due to
increased oral bioavailability**

Selected partners



Leading Beyond Chemistry



Polyplus⁺

Now Part of Sartorius

syvento | **BIO
TECH**



We provide information and advice to our customers on application technologies and regulatory matters to the best of our knowledge and ability, but without obligation or liability. Existing laws and regulations are to be observed in all cases by our customers. This also applies in respect to any rights of third parties.

Our information and advice do not relieve our customers of their own responsibility for checking the suitability of our products for the envisaged purpose.

For additional information please visit www.novoarc.com/

To place an order or receive technical assistance, please visit www.novoarc.at/contact/

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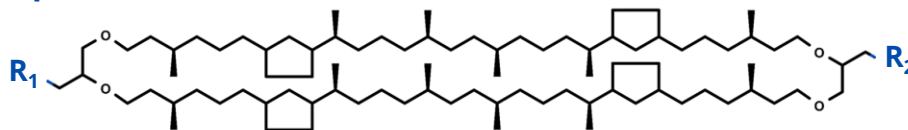
Our product portfolio

To enhance the power of our lipids we **chemically modify** them to tune their properties for **improved encapsulation, efficacy and specific targeting**.

❖ Native tetraether lipid

GDGT [Cat.# 34899]

$R_1, R_2 = \text{HO--}$



❖ Ionizable tetraether lipids

NMEA-GDGT [Cat.# 69756]

$R_1, R_2 =$



OHPIP-D-GDGT [Cat.# 04528]

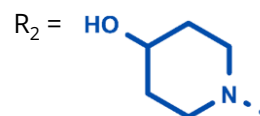
$R_1, R_2 = \text{HO}$



mono-OHPIP-D-GDGT

[Cat.# 73648]

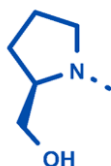
$R_1 = \text{HO--}$



LPRO-GDGT

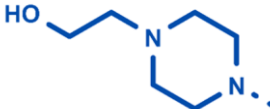
[Cat.# 87155]

$R_1, R_2 =$



HEPIPA-GDGT [Cat.# 21869]

$R_1, R_2 = \text{HO}$



❖ Tailor-made lipids

We manufacture our lipids according to customer specifications

Our services – Contract development

Each API needs **individual treatment**. Therefore, we support our customers in product development to get their product ready for market.

We offer **formulation development** and we provide material for *in vitro/in vivo* studies and clinical trials.

We develop **tailor-made lipids** based on a tetraether backbone, according to our customer's needs.

❖ Formulation development for the delivery of

- Small molecules
- Proteins/peptides
- RNA

❖ Synthesis of tailor-made lipids

- Functionalized tetraether lipids with headgroups according to customer specifications



Our IP

NovoArc holds a **broad IP portfolio** for the production and the application of tetraether lipids.

Didn't find what you are looking for?

Contact us to find out more about the alternative lipid

solutions we provide through custom manufacturing: [novoarc.at/contact/](https://www.novoarc.at/contact/)