



**NovoArc**  
Lipids for Innovation

# building blocks of medical care

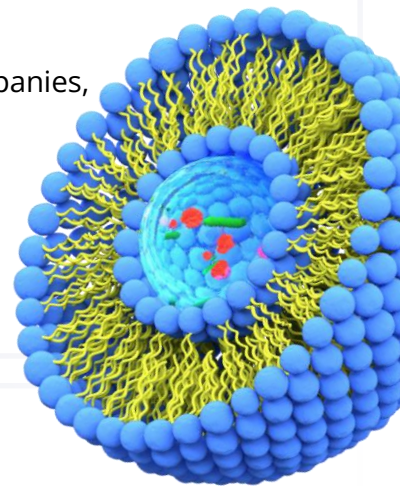
premium lipids for LNP and liposome formulation

## Who do we support?

**Your API is very powerful, but is 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**



## Why our customers love our technology

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

- ❖ Hydrophobic APIs are integrated into **water-soluble particles**
- ❖ Upon encapsulation in our lipids **the API gets stabilized and protected** against degradation during storage. Due to **the lipid shield technology**, the cargo is safely transported through the GI-tract enabling **oral drug delivery**
- ❖ LNP and liposome formulations containing our lipids have been proven to be **up to 10x more efficient** compared to conventional formulations.

This directly translates to **significantly reduced manufacturing costs** of the final drug formulation as well as **decreased side effects** caused by high dosage levels.

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



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/](http://www.novoarc.com/)

To place an order or receive technical assistance, please visit [www.novoarc.at/contact/](http://www.novoarc.at/contact/)

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## Our product portfolio

We have a variety of lipids in our portfolio to meet any customer needs. These substances are **highly stable lipids**, produced and purified from ancient, extremophilic microorganisms in scalable processes according to QbD guidelines.

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

### ❖ **Native tetraether lipids**

- MSL [Cat.# 17452]
- GDGT [Cat.# 34899]

### ❖ **Ionizable tetraether lipids**

- DEA-GDGT [Cat.# 52335]
- NMEA-GDGT [Cat.# 69756]
- LPRO-GDGT [Cat.# 87155]
- OHPIPD-GDGT [Cat.# 04528]
- HEIPA-GDGT [Cat.# 21869]



### ❖ **Tailor-made lipids**

- Manufactured 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 deliver material for *in vitro/in vivo* studies and clinical trials.

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

### ❖ **Formulation development for the enhanced delivery of**

- Small molecules
- Proteins/peptides
- RNA

### ❖ **Synthesis of tailor-made lipids**

- Functionalized tetraether lipids with headgroups according to customer specifications (e.g., ionizable headgroup, cationic headgroup, headgroup for specific targeting)

## 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://novoarc.at/contact/)