



VALINNX

BIOTECH

OVERVIEW



- VALANX Biotech GmbH founded in 2017.
- Company supported by governmental funding agencies as well as private capital.
- Operations are located at the IST Park in Klosterneuburg, Austria.
- Currently 6 employees.

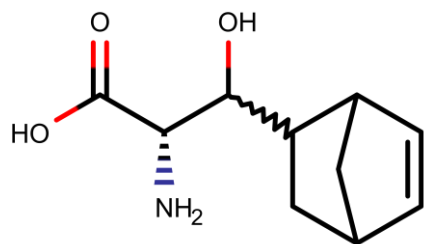


ASSETS

Asset	Intellectual property	Description
NorI	WO2019016354	Synthetic amino acid with a fast click chemistry, can be also used as a chemical linker. <i>Searching for: distributors</i>
VALANX conjugation technology, based on our 2 nd synthetic amino acid	Pending	Conjugation technology with continuously improving incorporation efficiency and product yield. <i>Searching for: pharmaceutical, biotechnology (IVD, biopharma...) or medical technology companies with a need in protein conjugation.</i>
LC-MS services Consulting	N/A	On-demand mass spectrometry, consulting or other ad-hoc services. <i>Searching for: academic groups and companies (fee4service business).</i>

NorI

- Technical properties of NorI (more information can be provided under CDA):



Molecular Weight:	197 Da
Appearance:	White powder
Purity:	95%+
Storage:	-20°C for 6 months
Reaction pH range:	pH 4 - 10
Click-chemistry reaction speed:	Rate constant [M ⁻¹ s ⁻¹]: 10 ⁻¹ - 10 ¹

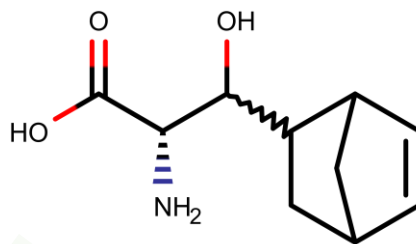
NorI

- Our 1st versatile synthetic amino acid NorI with norbornene moiety, suitable as:

a) raw chemical for custom peptide synthesis

b) chemical linker

- ✓ **Catalyst-free**
- ✓ **Click-chemistry enabled**
- ✓ **Rapid and irreversible reaction**
- ✓ **Works well at the pH 4-10 and at the room temperature**



In-house manufacturing

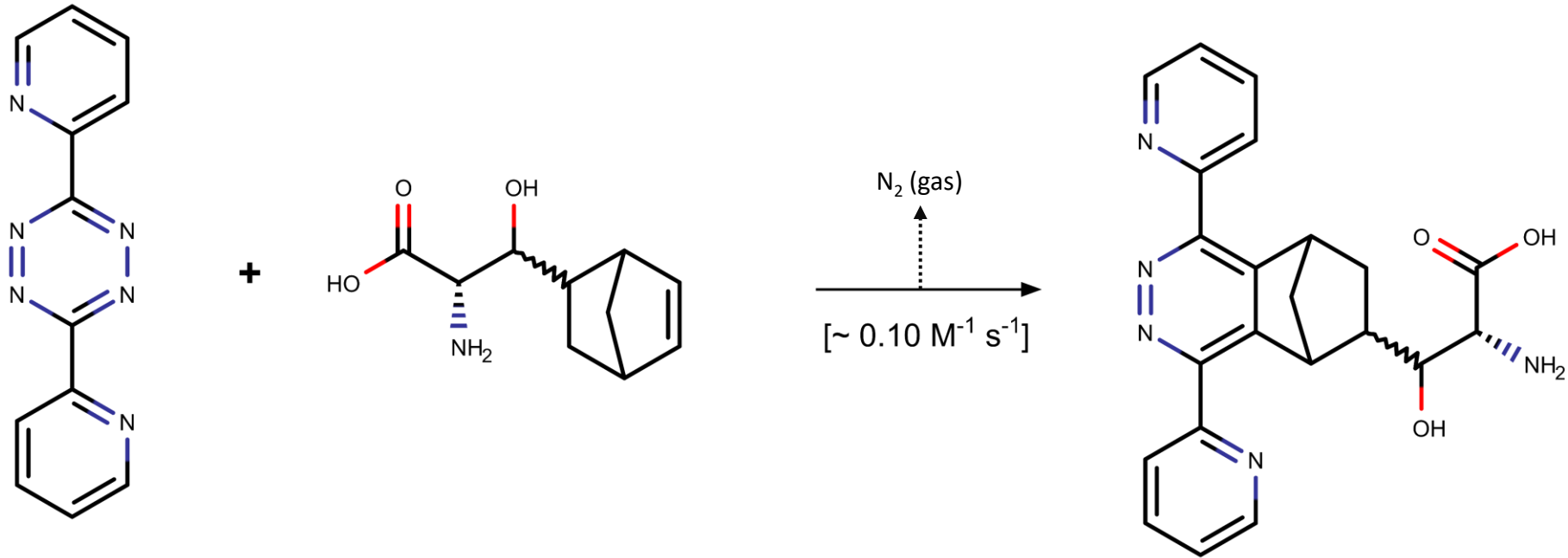
We manufacture and sell NorI directly as well as through our distribution channels.

Licensing

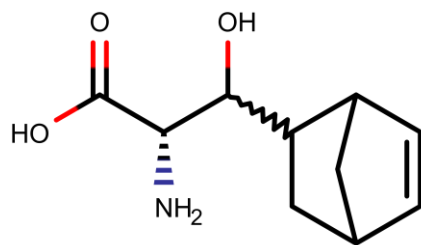
We can provide you with a patent license to conduct your own R&D.

NorI

- An example of a speed of NorI click-chemistry reaction kinetics – norbornene and tetrazine.

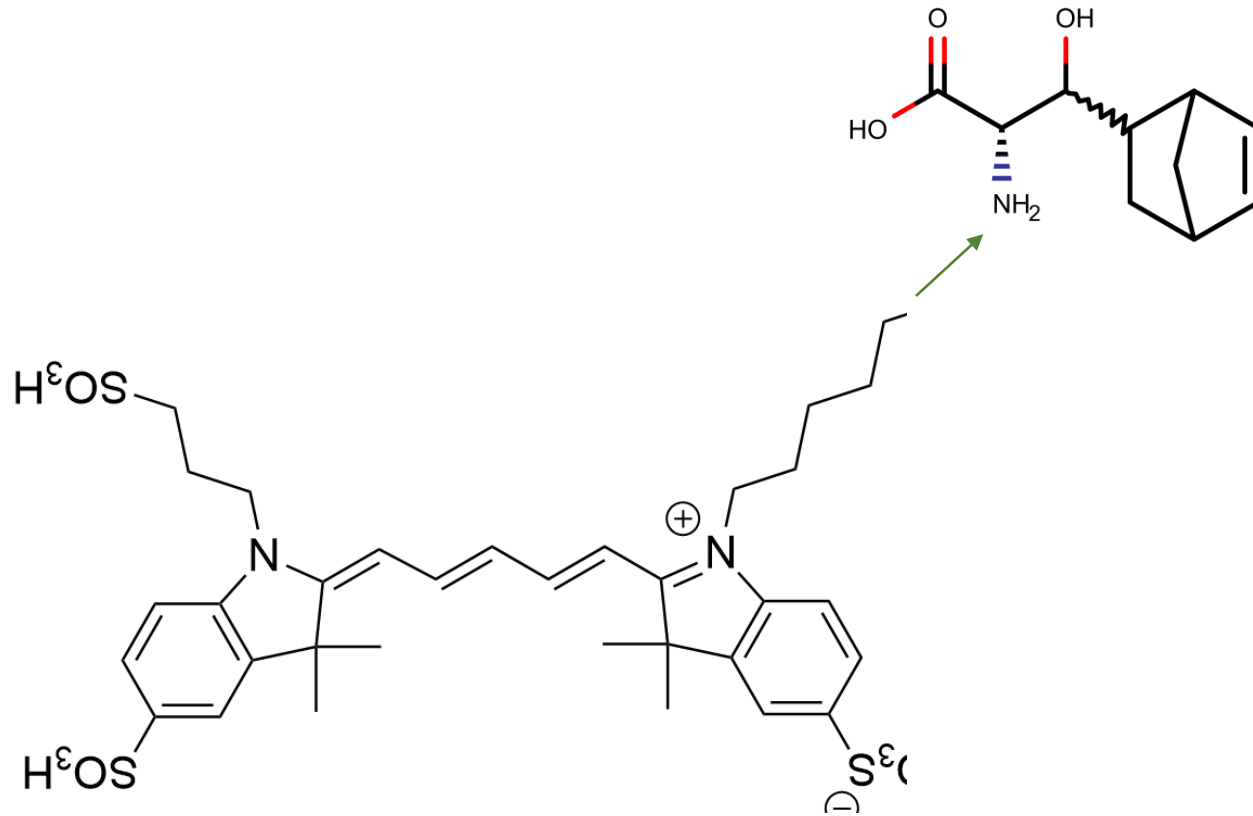


NorI – for chemical peptide synthesis



- NorI can be used as a neat click-chemistry modification tool in Solid Phase Peptide Synthesis (SPPS).
- Let us add the protective groups (Fmoc, Boc) for you on request or license the technology to conduct the development by yourself.

NorI – as a linker



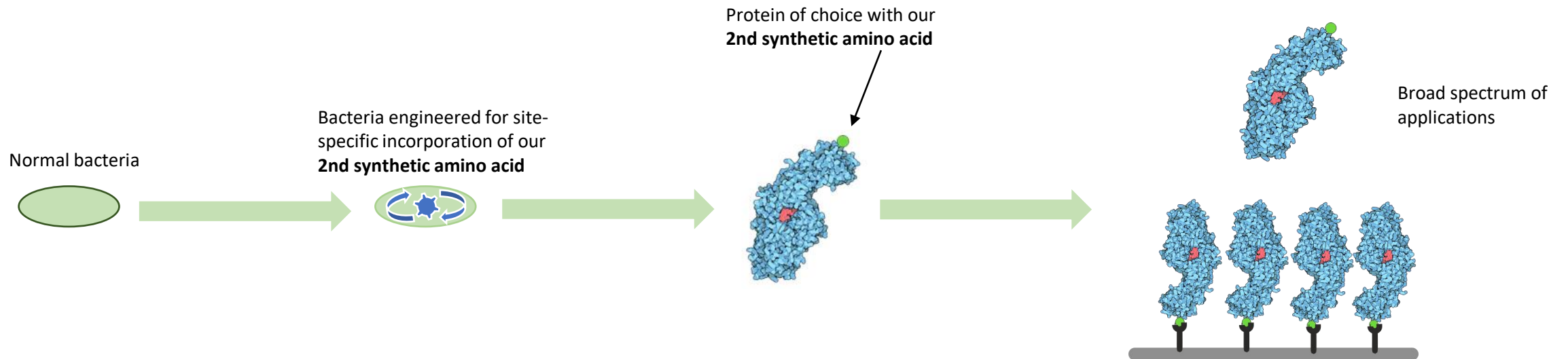
- Owing to its amine group, NorI can serve as a linker and allow you attachment of a variety of functional chemicals, including e.g. fluorescent dyes.

VALANX TECHNOLOGY – 2nd SYNTHETIC AMINO ACID



- Our 2nd proprietary amino acid:
 - ✓ Click-chemistry enabled
 - ✓ Reacts without catalyst
 - ✓ Rapid and irreversible reaction
 - ✓ Works well at neutral pH and at the room temperature
- Novel structure, patent for the composition-of-matter to be filed.
- More information can be provided under CDA.

- We use **engineered bacterial expression strains** to incorporate our **2nd synthetic amino acid** into a **protein of choice** and consequently harvest it.
- The conjugation site is freely selectable. This is done by engineering the **DNA “amber” stop codon (TAG)** in the **expression strain** to code for the **synthetic amino acid** during the process of translation.
- Conjugation site can be optimized for product stability and immunogenicity.
- The synthetic amino acid then allows for a specific and directed conjugation.
- We are continuously improving the incorporation efficiency and the product yield of the process.



VALANX TECHNOLOGY

- Iteratively increasing **incorporation efficiency (in %)** of a single amino acid allows us to consider different fields of application as the technology progresses with an **ultimate goal of addressing the pharmaceutical market** at the end of the technology development.

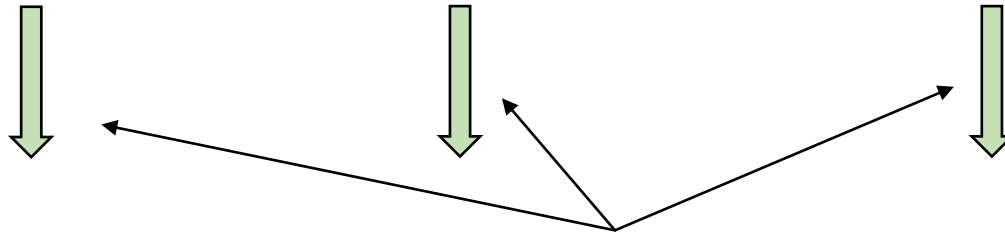
incorporation efficiency

10%

50%

80%

95%+



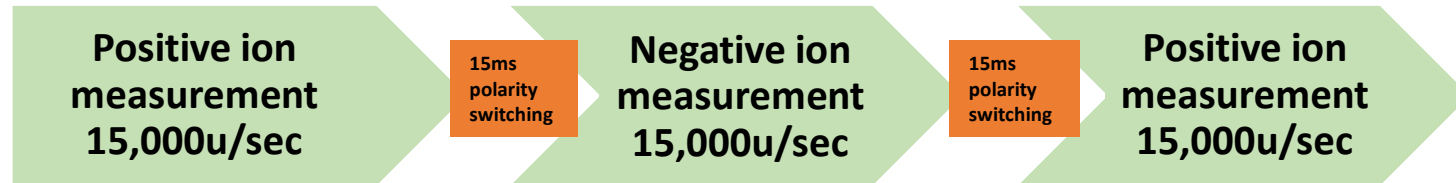
We are currently searching for partners for **joint development** or **direct R&D financing** of spin-out projects as we progress with our main technology development programme.

SERVICES - LC/MS

- Mass spectrometry on-demand (LCMS-2020 from Shimadzu).



- UFscanning and UFswitching.



- Fast turn-around-times (1 business day).

Applications:

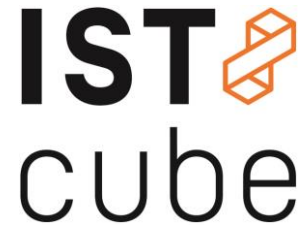
- Small molecules - hormones, amino acids and small peptides

OTHER SERVICES

- Scientific consulting (protein conjugation, strain engineering & development)



OUR PARTNERS



ASSETS SUMMARY



Asset	Our preferred partnership models
1st synthetic amino acid: NorI	Distribution, direct sales, licensing
VALANX conjugation technology, based on our 2nd synthetic amino acid	R&D financing, joint development, licensing
Services	Fee4service

CONTACT



Please do not hesitate to get in touch if you have any questions!

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