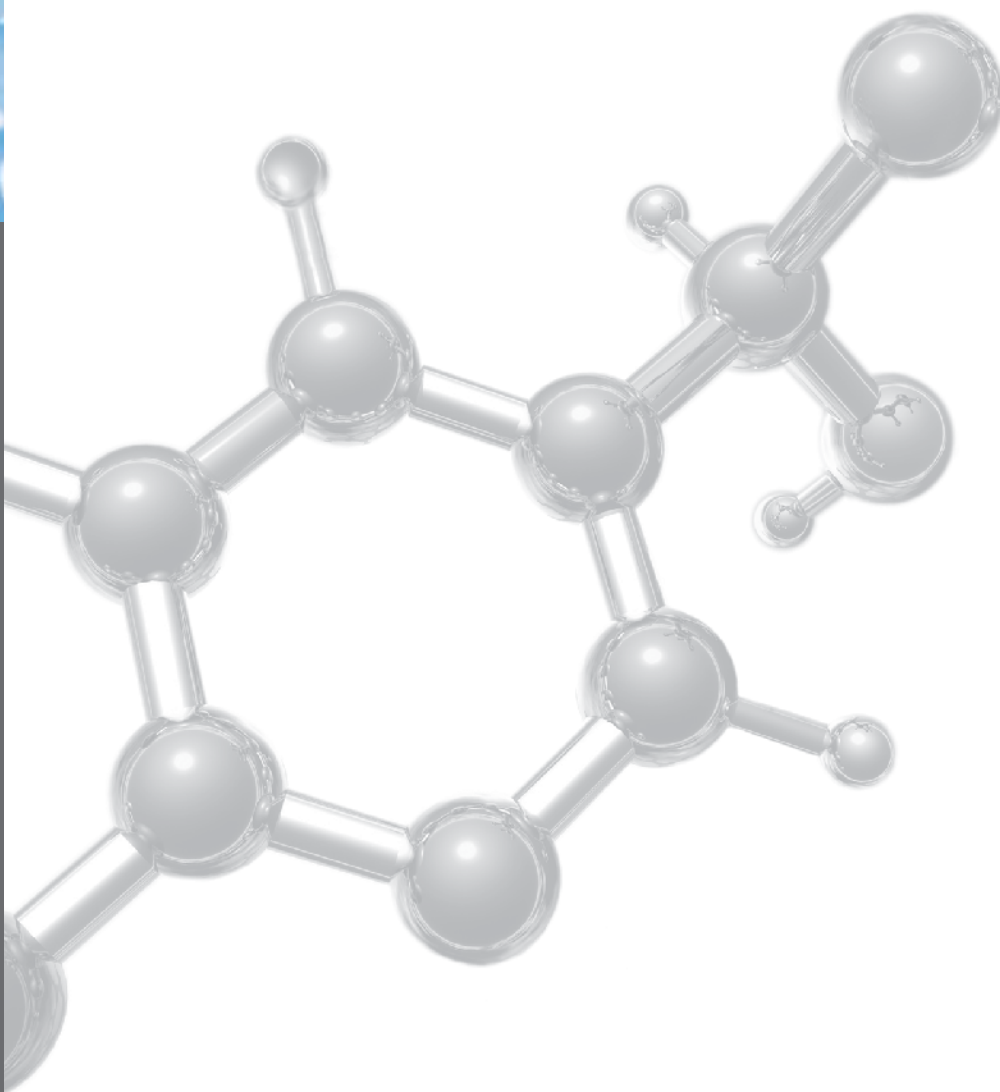


Corden Pharma Switzerland LLC



Corden Pharma Switzerland LLC is a premier supplier of custom and readily available chemically synthesized pharmaceutical materials for the global pharmaceutical industry with a focus on lipids, peptides, carbohydrates, amino acid derivatives, pseudoprolines and custom small molecules.



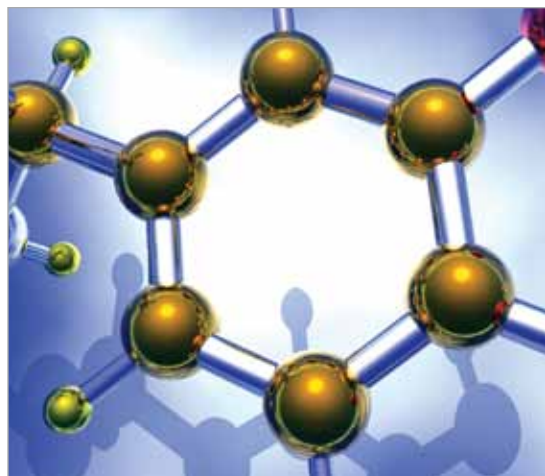
CUSTOM MANUFACTURING

With over 25 years of experience in providing pharmaceutical and biotechnology companies custom manufacturing of complex pharmaceutical materials and specialty chemicals, Corden Pharma Switzerland is an integrated resource of highly trained people, a state-of-the-art cGMP facility, and a history of chemistry excellence. Our approach to the custom manufacturing market starts at the early R&D phase and continues through to the development and commercialization of our customer's drug product.

Corden Pharma Switzerland's manufacturing facility in Liestal, Switzerland holds a current GMP Certificate and is regularly inspected by the Swiss Regulatory Agency, the U.S. FDA and numerous customers.

Our core competencies within custom manufacturing center around, but are not limited to, the following:

- Small molecules/active pharmaceutical ingredients (APIs)/registered intermediates
- Specialty chemicals
- Amino acid derivatives and building blocks
- Peptide synthesis
- Synthetic phospholipids and other lipids
- Polymers
- Carbohydrates



AMINO ACID DERIVATIVES FOR PEPTIDES AND PEPTIDOMIMETICS

We have extensive knowledge in the development and manufacture of amino acid derivatives (AADs) suitable for the GMP production of peptide or peptidomimetic drugs. Our manufacturing capacity is seamlessly integrated with supply chain management to allow for production volumes up to multi-ton quantities *per annum*.

The development and optimization of scalable manufacturing processes, properly controlled state-of-the-art analytical methods, and broad expertise in general organic chemistry provides access to a wide range of new, unusual amino acids.

This technology driven approach ensures that AADs from Corden Pharma Switzerland are consistently high in quality and competitively priced, two essential requirements for the successful development of peptides and peptidomimetic drugs.

PEPTIDES FOR PHARMACEUTICAL APPLICATIONS

Corden Pharma Switzerland has a core competency in the production of custom peptides, including peptidomimetics, peptide fragments, and GMP peptides used as APIs. Our team of chemists is experienced in developing scalable manufacturing processes utilizing solution-phase and/or solid-phase methodology for peptide synthesis. The in-house development and multi-ton production capabilities for chiral building blocks, unusual and natural amino acid derivatives ensures cost effective peptide API manufacture and the best possible control of the supply chain and regulatory requirements.

Pseudoproline dipeptide building blocks, an area in which we have particular expertise, are powerful tools for bypassing the synthesis challenges associated with “difficult sequences” and long peptides such as low solvation during solid phase synthesis and limited solubility of (un)protected peptide segments.



Corden Pharma Switzerland offers phospholipids and derivatives of lipids from synthetic routes, which allows for highly purified products with well controlled and consistent batch-to-batch quality. These phospholipids are used as key substances (excipients, critical materials, etc.) in a variety of engineered drug delivery technologies such as liposomes, emulsions, and pulmonary products. Our lipids may also be used as Active Pharmaceutical Ingredients (APIs).

We manufacture synthetic phospholipids from either IPG or soy-based GPC starting material. Our phospholipid products are available in small quantities for Research and Development, and in larger quantities for GMP use. In some instances, they are fully supported GMP materials ready for clinical use.

GMP development of synthetic sphingolipids such as sphingosines, sphingosine isomers and derivatives, ceramides, and sphingomyelin derivatives is also available.

Beyond custom-manufactured proprietary lipid-based products, our combination of chemistries involving the conjugation of lipids to other substrates such as peptides or carbohydrates offers unparalleled value to customers.

While oligonucleotide-based therapeutics are one of the most promising approaches in disease treatment today, the delivery of RNA and DNA derivatives into the cells of the target organ presents substantial challenges. Corden Pharma Switzerland provides value-added solutions for delivering such actives through a unique combination of products and services ranging from off-the-shelf lipids and cationic lipids, to the custom manufacturing of transfection molecule(s) such as lipids, lipo-peptides, peptides, or polymers.

Quality and Regulatory Support

Our Swiss facility maintains an independent Quality Assurance group and Quality Control laboratories. These labs are staffed with highly trained technicians and outfitted with state-of-the-art equipment, ensuring the customer seamless support in critical development areas such as:

- Analytical development and validation
- Cleaning validation and stability studies
- Supplier evaluation and qualification
- GMP and manufacturing documentation

SYNTHETIC PHOSPHOLIPIDS AND OTHER SYNTHETIC LIPIDS

DELIVERY OF OLIGONUCLEOTIDE- BASED THERAPEUTICS



CONTACT CORDEN PHARMA SWITZERLAND

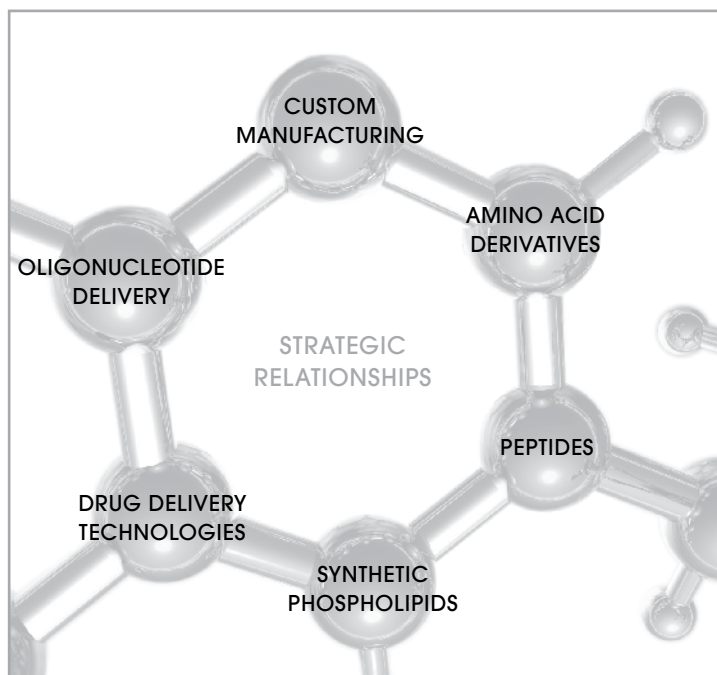
Corden Pharma Switzerland's unique combination of products and services brings unequaled value to customers in the pharmaceutical and biotechnology industries. Challenge us with your specific needs; striving to improve health drives us toward shared success with our customers.

Contact us for more detailed information related to:

- Custom manufacturing
- Synthetic phospholipids and other synthetic lipids
- Peptides for pharmaceutical applications
- Pseudoproline dipeptides
- Amino acid derivatives for peptides and peptidomimetics
- Oligonucleotide-based therapeutic delivery

Corden Pharma Switzerland LLC is a subsidiary of Corden Pharma. For information on the full range of Corden Pharma products visit:

www.cordenpharma.com



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