



BOC Sciences - Amino Acids and Peptides

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BOC Sciences

Established in 2005, headquartered in New York.

Employee Number: 200+, 95% employees with a master degree or above.

BOC Sciences has established powerful synthesis and fermentation platforms to produce high- quality chemicals.

Product Portfolio includes Inhibitors, APIs, Natural compounds, Amino Acids derivatives, Carbohydrates, Nucleoside & Nucleotide Products, *etc.*

Products and Services

BOC Sciences has been providing customers in the pharmaceutical and biotechnology from preclinical to commercial stages, with thousands kinds of high quality amino acids, amino acids derivatives, resins, peptides, and proteins with optimal prices and fast delivery from stock.

We also provide custom synthesis services for unnatural amino acids, peptides and commercial products with special requirements.

Amino Acids and Peptides

Amino acids are the repeating units that construct protein scaffold and enable life activities.

Amino acids are important regulators of cellular signaling and metabolism as well.

The study of amino acid derivatives is of great significance in understanding life and the science with it. There have been many amino acid derivatives, peptides and protein drugs on the market for human cure and health.



Amino Acids

BOC Sciences provides > 5,000 unnatural/unusual amino acids (UAAs) for research and production in drug development, peptide synthesis, and metabolic study. Owing to the unique structure combining functionalized amine and carboxyl, UAAs are invaluable as starting materials for synthesis of complex molecules, peptide drugs, *etc.* In addition to pharmaceutical ingredients, amino acids can be used in medical nutrition, dietary supplement, cosmetics, and culture Medium.

D-Amino Acids	L-Amino Acids	DL-Amino Acids	β -Amino acids
γ -Amino acids	Fmoc-Amino Acids	Boc-Amino Acids	CBZ-Amino Acids
Cyclic Amino Acids	Bicyclic Amino Acids	Alkynyl Amino Acids	Fluorinated amino acids
Azido Amino Acids	Glyco Amino Acids	Fluorescent Amino Acids	Amino Alcohol
Amino Aldehydes	Isotope Labelled Amino Acids	Inhibitors containing Unusual Amino Acids	
Amino Acids for Stapled Peptide	Other Unnatural Amino Acids		

Key products for Amino Acids

Product Name	CAS No.	Structure	Manufacturing scale
Boc-β-Homoala-OH	158851-30-0		100 kg
L-Alanyl-L-Glutamine	39537-23-0		1000 kg
Fmoc-L-Pen(Trt)-OH	201531-88-6		10kg

Peptides

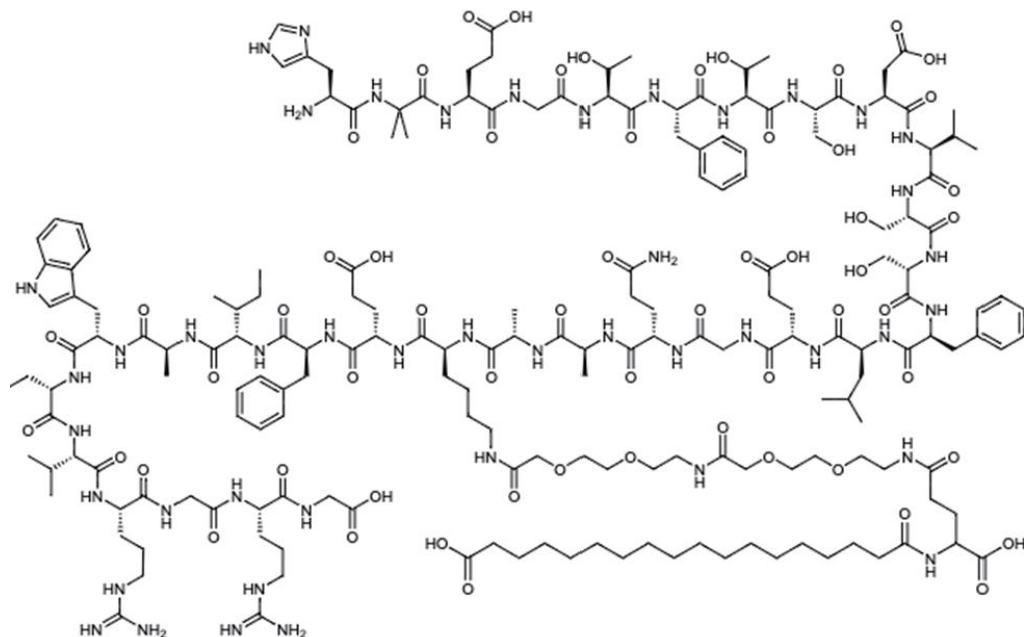
BOC Sciences offers short and long peptides for research, cosmetic and therapeutic use. We use liquid phase peptide synthesis (LPPS), solid phase peptide synthesis (SPPS) and biosynthesis (fermentation) for peptide development and production.

With SPPS, we can prepare peptides up to 200aa length. Our fermentation platform enables manufacturing of peptides with more complex and challenging structures and scalable for bulk production.

For most of the peptides, we could offer up to kg manufacturing scale and GMP grade for APIs.

Semaglutide

(GMP standard, via fermentation, kg scale)



Key Peptide Products

Product Name	CAS No.	Manufacturing scale	Product Name	CAS No.	Manufacturing scale
Liraglutide	204656-20-2	500kg	Degarelix Acetate	214766-78-6	500kg
Semaglutide	910463-68-2	300kg	Teriparatide Acetate	52232-67-4	500kg
Linacotide	851199-59-2	200kg	Eptifibatide Acetate	188627-80-7	50kg
Carbetocin	37025-55-1	50kg	Buserelin	57982-77-1	50kg
Terlipressin	14636-12-5	25kg	Octreotide	83150-76-9	50kg
Oxytocin	50-56-6	100kg	Goserelin Acetate	65807-02-5	100kg
Desmopressin Acetate	16789-98-3	25kg	Acetyl Hexapeptide-8	616204-22-9	500kg
Caspofungin Acetate	179463-17-3	100kg	Acetyl Carnosine	56353-15-2	1000kg
Bivalirudin TFA	1191386-55-6	400kg			

Services

BOC Sciences is endeavored to satisfy customers' need by customization.

Amino acid modification

protection/deprotection, isotopic labeling, etc.

Peptide post modification

salt conversion, cyclization, oxidation, PEGylation, lipidation, etc.

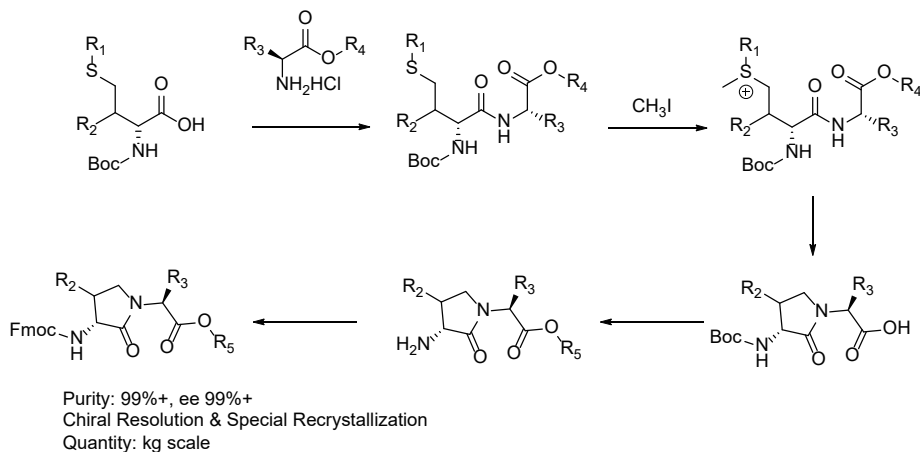
Peptide conjugation

conjugate with small molecule drug, oligonucleotides, carbohydrates, nanoparticles, etc.

Analytical support

Chiral analysis, amino acid analysis, water content, residual solvent, lyophilization development, etc.

Case Study - Chiral amino acid synthesis



Multi-step synthesis and delicate purification afforded the UAA with high purity and high ee. The UAA was fully characterized and used as a starting material for clinical trial GMP grade peptide synthesis.

Facilities and Capabilities

- 100+ Fermentation reactors up to 120 m3 commercial scale
- Up to 10000L Enamel reactors for LPPS
- Up to 1000L Stainless steel reactors for SPPS
- 2 Preparative purification labs with freeze dryer
- FDA audited Manufacturing sites



Analytical Capabilities

- Development, optimization, qualification, and validation of test method
- Compound characterization: GC-MS, LC-MS, NMR, IR *etc.*
- Lot release testing: HPLC, MS *etc.*
- Additional assessment: Heavy metal, microbial limit, endotoxin *etc.*
- Stability study
- Troubleshooting



BOC Sciences - Customer Centered

- > 8,000 amino acids and peptides from stock
- Custom synthesis for special AA and peptide needs
- Full characterization analysis available
- From concept to industrialization
- Global partnership for broad product portfolio

- Ensured quality
- Flexible package size
- Global delivery
- One on One Customer service

Contact Us

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