SYNBIO TECHNOLOGIES

Peptide Services

- Custom Peptide Synthesis
- Peptide Modification
- Peptide Library

Peptide Synthesis Technology Platform

Advanced peptide solid-phase & liquid-phase synthesis techniques

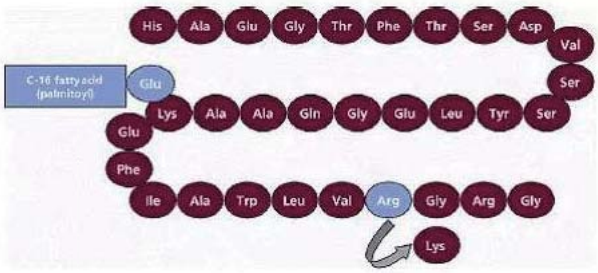
- **Parallel synthesis technology**
- **Peptide library synthesis technology**
- **Peptide chip synthesis technology**
- **Combination chemical peptide synthesis technology**
- **Peptide chain extension technology**
- **Click chemical peptide synthesis technology**

Technical characteristics

Fusion of SPPS, LPPS, microwave technology and fragment condensation technology, AIPEP synthesis platform ensures high-quality and fast delivery of peptides.

Advanced solid-phase synthesis and purification instruments greatly increase peptide production capacity.

Advanced peptide solid-phase & liquid-phase synthesis techniques



Overcoming the bottleneck of peptide technology

Enhanced drugability

- **Drug Design**
- **Structure modification & optimization**
- **Recombinant peptide expression**
- **Specialty formulations**
- **Peptide Drug Coupling (PDC) Technology**

Peptide Drug Design and Screening Sub-platform

Peptide-drug Coupling Technology Sub-platform

Long-lasting Peptide Modification and Optimization Sub-platform

Peptide Services

At Synbio Technologies, we leverage our experienced research team and cutting-edge synthesis platform to deliver a wide array of peptide services. Whether you need custom peptide synthesis for research or cGMP-scale production, or if you're interested in peptide libraries, we have you covered. Our services include flexible modification, conjugation, and isotopic labeling options to suit your specific needs.

With a peptide synthesis success rate exceeding 98%, we guarantee top-quality products. Our peptides are perfect for various applications, including drug development, protein functional analysis, monoclonal antibody preparation, antibody-antigen interaction studies, and enzyme specificity research, among others.

Why Choose Us

- Peptide lyophilization and dispensed under aseptic conditions
- Technical methods for addressing hydrophobic challenging peptide sequences
- Success rate exceeding 90% for individual peptide segments
- High-throughput manufacturing capability
- Comprehensive quality system and controlled environment

Custom Peptide Synthesis

Synbio Technologies is a dependable one-stop solution to custom gene synthesis, peptide synthesis, protein expression,antibody discovery, comprehensive molecular biology services and cell line development. Utilizing techniques such as solid phase peptide synthesis (SPPS) and liquid phase synthesis, we provide a variety of synthesis platforms, purity levels, modifications, and formats to cater to diverse research requirements. Our products are 100% accurate and delivered efficiently.

Why Choose Us?

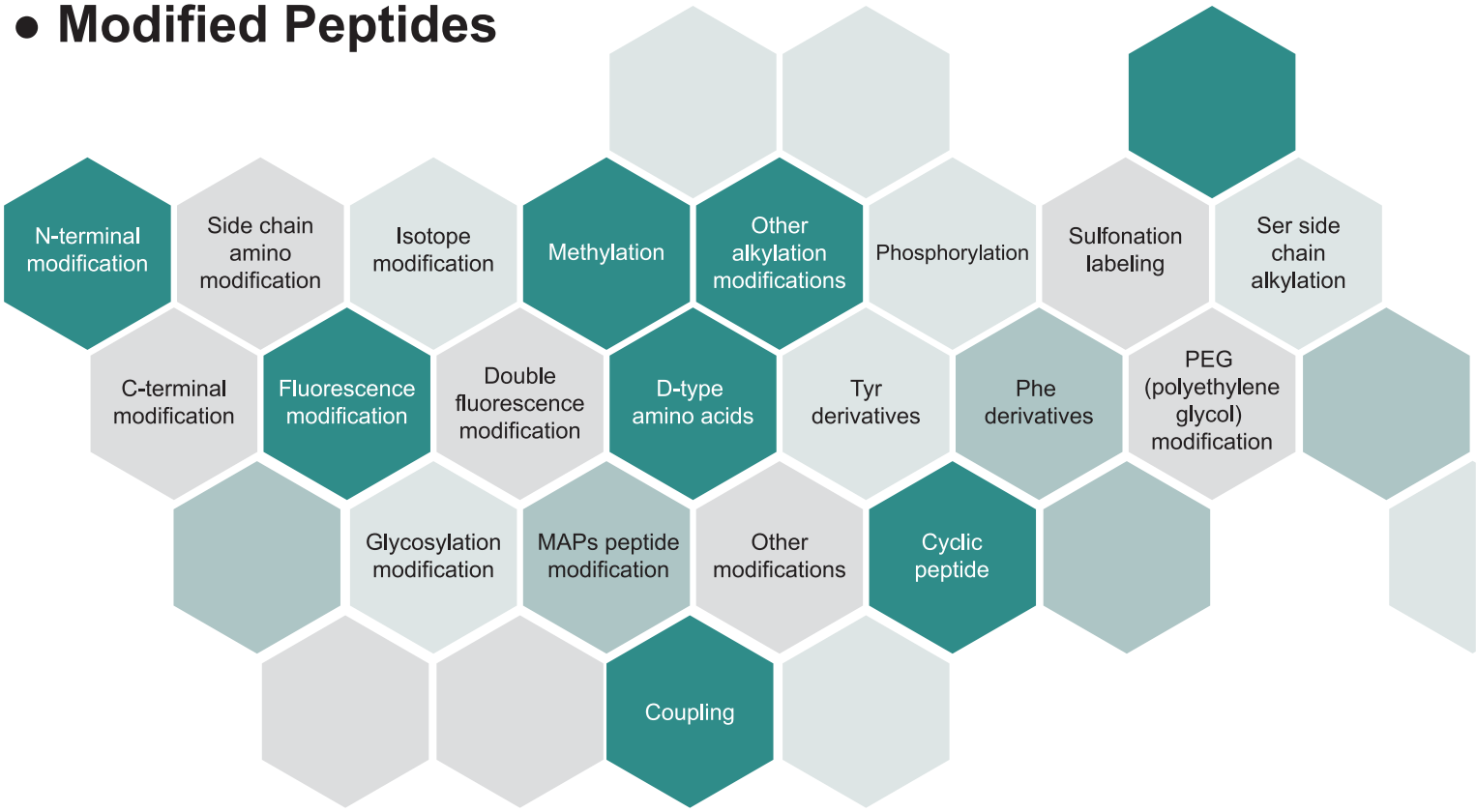
- >98% Success Rate
- Choice Between mg to Kg Sizes
- 100% Accuracy
- Offers Crude to >99%
- Multiple Quality Controls
- Diverse Peptide Modifications

Service Details

Peptide Synthesis Size	milligrams to kilograms.
Purity	crude, desalted, >75%, >80%, >85%, >90%, >95%, >98%.
Modified Peptides	phosphorylation (Ser, Thr, Tyr), cyclisation (amide ring, disulfide bond ring), fluorescent labeling (FAM, etc.), biotin labeling (Biotin), isotope labeling, etc.
Peptide Structures	linear peptides, cyclic peptides, modified peptides, special peptides, etc.
Different Scales	single peptide, batch peptide, peptide library.
Deliverables	• Peptide Products • HPLC Report • MS Reports • Certificate of Analysis

Product Structure

• Modified Peptides



• Catalog Peptides

Transmembrane transport peptide

Antibacterial and anti-inflammatory peptides

Antitumor peptides

Nanomaterial peptides

Auto-polymerized peptides

Tumor targeting peptides

Antiviral peptides

Autoimmune peptides

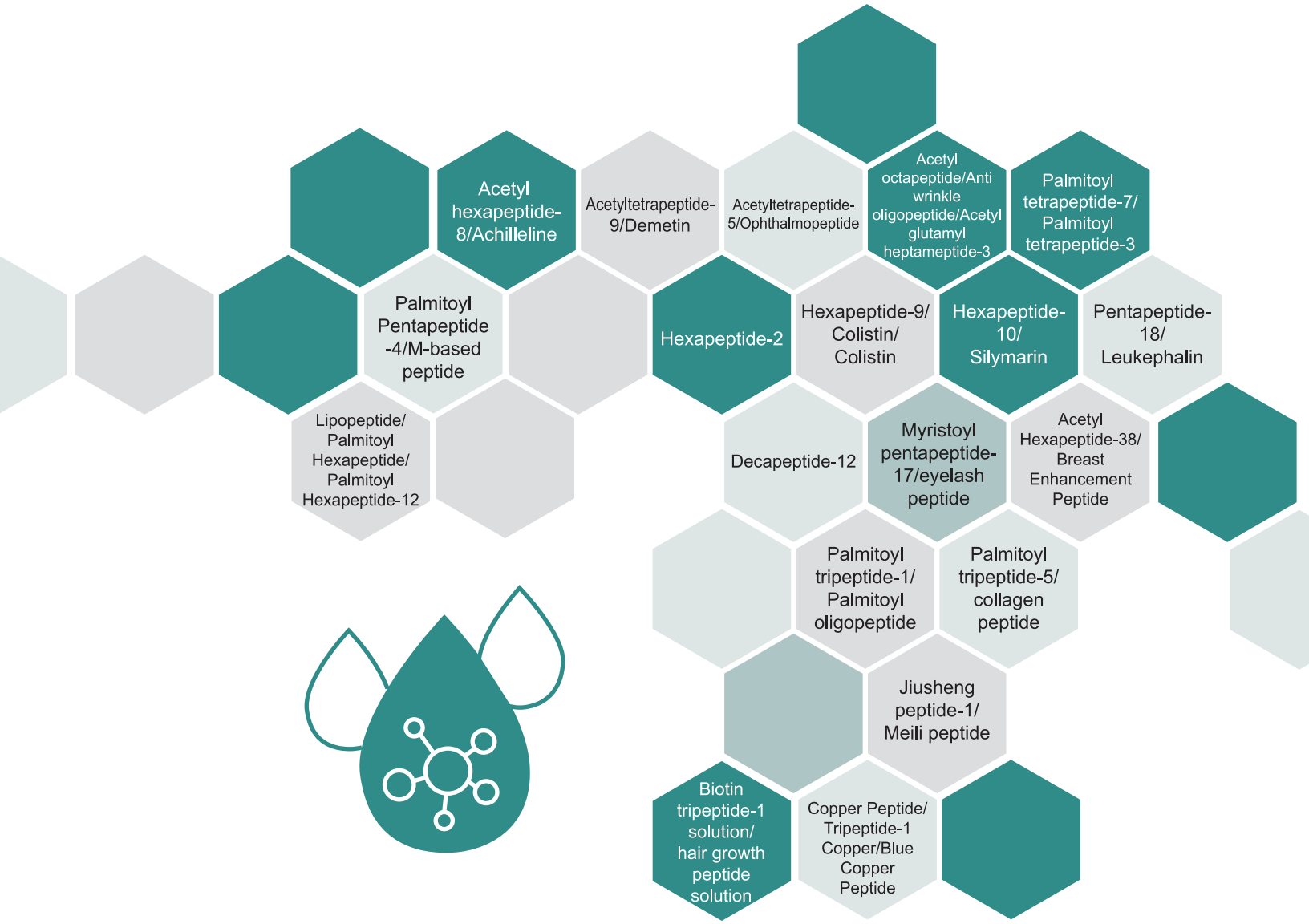
Central nervous system peptides

Analgesic peptides

Human metabolic peptides

Cosmetic peptides

• Cosmetic Peptides



Peptide Library

Peptide libraries are widely used in life science research fields, such as drug discovery, vaccine development, proteomics, and immunotherapy.

Synbio Technologies has a rapid high-throughput parallel peptide synthesis platform that provides large-scale peptide synthesis at a low cost. We offer a flexible selection of peptide purity levels ranging from crude to 99% purity. All purified peptides are delivered with QC reports of HPLC, MS, and COA to ensure the highest quality.

Why Choose Us?

- **High Throughput:** > 8,000 peptides each month
- **Fast Turnaround Time**: Delivery within 2-3 weeks, 1-2 weeks if urgent
- **High Quality Products:** Complete HPLC, MS, and COA reports
- **Customizable Purity Level:** Peptide purity levels range from crude to 99%
- **Various Peptide Libraries:** Protein libraries to meet customer different needs

Types of Peptide Library

Truncated peptide library

These determine the minimal epitope by gradually removing amino acids from both ends of a peptide sequence, identifying the minimal sequence associated with the activity.

Random peptide library

20 natural amino acids randomly replace specific residues, creating diverse peptide sequences. This is widely used in peptide screening to discover new active peptides or target regions.

Positional Scanning Library

Specific positions within a peptide sequence are systematically replaced by other amino acids to optimize the sequence. The amino acids best suited for specific positions are identified.

Alanine Scanning Library

Each amino acid in a peptide is sequentially replaced by alanine to assess its impact on the overall peptide structure, function, and biological activity. This aids in identifying key amino acids.

Scrambled Library

Internal amino acid substitutions in an original peptide sequence serve as negative controls to confirm critical sequences. This library is widely used in targeted molecular probe screening and discovering new protein functions.

Overlapping Peptide Library

By progressively truncating from the N-terminus to the C-terminus of a protein, epitopes associated with specific biological activities are able to be discovered. Furthermore, the screening of these linear or contiguous epitopes allows for peptides to be designed.

Purity range	Synthesis length	Turnaround Time	Deliverables
Crude product, desalted, and converted salt, >70%, >75%, >80%, >85%, >90%, >95%, >98%, >99%	1-30 AA	2-3 weeks, fastest 1-2 weeks.	• Peptide Products • HPLC QC Reports • MS QC Reports • Certificate of Analysis Documents

SYNBIO TECHNOLOGIES

Synbio Technologies One-stop Solution

Turn Complexity into Speed and Savings

Synbio Technologies combines cutting-edge AI design with advanced manufacturing to deliver precision biomolecular solutions for researchers worldwide. Serving 20,000+ clients across 70+ countries, we've optimized over 1 million codons and synthesized 10 billion+ DNA bases.

We accelerate breakthroughs across life sciences, synthetic biology, vaccine development, molecular breeding and DNA data storage. Partner with us to transform your research vision into reality - where proven technology meets trusted collaboration.

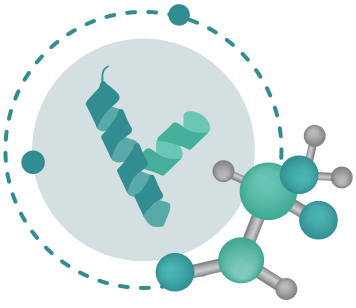
DNA WRITING

DNA READING

DNA EDITING

SYNTHETIC BIOLOGY

ANTIBODY DISCOVERY



PROTEINS & PEPTIDES

quote@synbio-tech.com

+1 732-230-3003

synbio-tech.com

9 Deer Park Dr., Suite J-25 Monmouth Junction, NJ 08852

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