



Peptide Service Brochure



RUO to cGMP Peptide Synthesis

For Therapeutic Development

GenScript is the global leader in peptide solutions, offering seamless support from discovery to clinical success. From RUO to cGMP-grade synthesis, including custom peptides, libraries, and catalog products, we provide the expertise and reliability you need to drive breakthroughs at every stage.



Industry Leading Speed

- 5/7 business days production or your money back



Trusted Capabilities

- >98% success rate
- 300+ modifications



Proven Records

- 20+ years experience
- 10,000+ customers worldwide



RUO to cGMP

- Neoantigen & API drug development
- Patient-specific dose in <30 days



Catalog Products

- 200+ in-stock for diabetes research, neuroscience, cosmetics, and more
- HPLC purified, mg to kg



Online Order

- Save time and accelerate research with streamlined online ordering experience

Peptide Synthesis Service



Turbo-fast & Guaranteed
5/7 BDs guaranteed
or your money back



Reliable Quality
Purity up to over 98% with
comprehensive QC testing



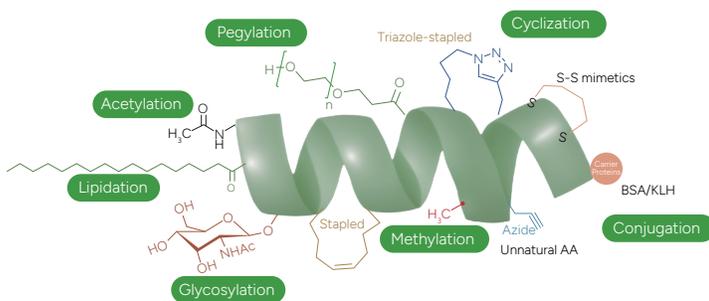
Simple, Fast Online Ordering
Save time and accelerate your
research with ease!

	TurboTide	Standard Peptide	Standard Peptide Library	Micro-scale Peptide Library
Turnaround Time (Business Days)*	5 BDs guaranteed for 4-15 aa 7 BDs guaranteed for 16-25 aa	10 BDs	3-4 weeks	
			Minimum order size: 24 peptides	Minimum order size: 12 peptides
Length	4-25 aa	<200 aa	5-25 aa	
Purity	≥95%	Crude to ≥98%	Crude to ≥98%	Crude to ≥95%
Quantity*	4 mg	mg to kg	1-9 mg	0.2-0.5 mg

***Note:**

- Guaranteed turnaround time includes all business days from order confirmation to order production completion, not including shipping time. Delay compensation: 10% of the delayed item's value per business day, up to a maximum of 50%. TurboTide Services is limited for non-complex sequences and modifications.
- Guaranteed quantity is valid for TurboTide Service and Peptide Synthesis Services on orders with less than 20 mg in quantity.

Comprehensive Modifications



We offer a wide range of modifications to meet any research need. These modifications can improve overall peptide stability, alter structure to better understand biological function, or enhance immunogenicity for antibody development and production. In addition to a variety of terminus and internal modifications, we also offer peptide labeling and conjugations for imaging and detection needs.

AccuPep + QC Testing

GenScript ensures high quality for all peptides with comprehensive testing, including mass spectrometry and analytical HPLC throughout synthesis and purification. We also offer specialized QC services to support specific experimental needs.

- Solubility test
- Amino acid analysis
- Moisture content analysis
- Specific optical rotation

- TFA counter ion exchange detection
- Peptide content analysis/nitrogen analysis
- Stability test
- Peptide sequencing

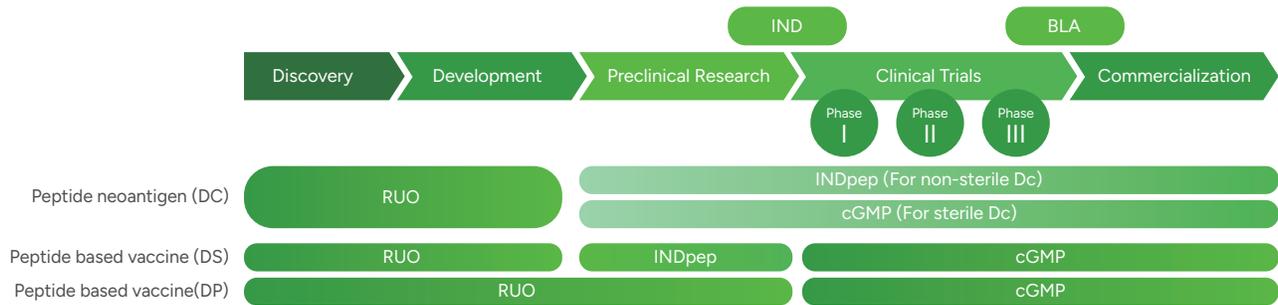
- Endotoxin control and analysis
- pH measurement
- Counter-ion quantification
- HPLC-UV fluorescence detection

Neoantigen Peptide Service

GenScript offers a one-stop solution for neoantigen peptide services, from research lab to cGMP compliant manufacturing facility.

	RUO	INDpep	cGMP
Production Site	RUO site	cGMP site	cGMP site
Application/Purpose	Discovery & development	Preclinical research to IND enabling studies	Phase I, II, III & commercial
Production Scale	mg to kg scale	mg to kg scale	mg to kg scale
Recommended Purity	Customized	≥90%	≥90%
Quality Management System (QMS)	ISO 9001	cGMP-compliant (simplified)	cGMP-compliant
Batch Record	×	√	√
Default QC Package (for DC vaccine)	1.Purity 2.MS	1. Appearance 2. Purity 3. Solubility test 4. Molecular weight 5. TFA content (batch test) 6. Endotoxin control (batch test) 7. Microbial limit (batch test)	1. Appearance 2. Purity 3. Solubility test 4. Molecular weight 5. TFA content (batch test) 6. Endotoxin control (batch test) 7. Microbial limit (batch test) or Sterility test
Sterile Treatment	×	×	√
Delivered Documentations	Cert. of Analysis (COA)	1. Cert. of Analysis (COA) 2. TSE/BSE statement	1. Cert. of Analysis (COA) 2. TSE/BSE statement 3. Cert. of Compliance (CoC)

Your Reliable Partner from Research to Clinic



IND=Investigational New Drug; BLA=Biologic License Application; DS=Drug Substance; DC=Dendritic Cell; DP=Drug Product; RUO=Research Use Only; cGMP=Current Good Manufacturing Practice.

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Screening hundreds of neoantigens in mice to validate the generalizability of SNP-7/8a was a tremendous undertaking that could not have been possible without the diligent efforts of GenScript's peptide chemists who were able to rapidly synthesize even the most challenging sequences at the high purity required.

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The 3T technology is multi-faceted due to the ability to uncover specialties in any T-cell-mediated disease. 3T Biosciences has been working with GenScript since 2017 to generate thousands of peptides to understand how T-cell receptors recognize their targets. With that information we can better understand how to identify novel targets in solid tumors and generate safe and effective T-cell receptors.

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Geoffrey Lynn, Ph.D.
Aidea Technologies' CEO



Marvin Gee, Ph.D.
3T Biosciences' co-Founder
and Head of Target Discovery.

cGMP Peptide Capabilities

90+

Batches delivered

20+

Projects supported

6

Successful audits



20+ Years Expertise

- Support throughout the drug development process, from drug discovery to CMC
- Expertise in complex and modified peptides, such as cyclic peptides, peptide-drug conjugates (PDCs), etc.
- Deliver up to 48 personalized neoantigen sequences/patient/batch, enabling rapid manufacturing, QC, and release.



cGMP Compliance

- Meet ICH Q7 and 21 CFR 210/211 guidelines
- Clean suite with Grade A isolator in Grade C background
- Sterile filtration and aseptic fill finish available
- Method development and validation, formal method transfer
- CMC compilation & master batch record
- Rx-360 Audit Report available for licensing for fast and easy compliance assessment



Regulatory Support

- Regulatory strategy for peptide drug substance or drug product
- Support for regulatory authority interactions, including pre-IND or scientific advice meetings
- IND and CTA support and responses to regulatory questions



Catalog Peptides

We offer an extensive range of off-the-shelf peptides enables cutting-edge research to be conducted in a timely manner. All peptide products are purified by HPLC up to 95% purity for maximized batch consistency.



Diverse Portfolio

Over 200 peptide products;
from mg to kg;
individual or bulk order available



Quick Turnaround Time

Stock available worldwide from the
United States, Netherlands, Singapore,
and China etc.



Stable Quality

All catalog peptides are purified
by HPLC with reliable quality.

Applications	Catalog Name
Diabetes & Obesity	<p>In addition to the best-selling products listed below, we also offer Tirzepatide, Mazdutide, Retatrutide, and more.</p> <ul style="list-style-type: none"> • Myelin Oligodendrocyte Glycoprotein Peptide (35-55), mouse, rat • Glucagon-Like Peptide (GLP) I (7-36), amide, human • Gastric Inhibitory Peptide (GIP), human • Glucagon (1-29), Human • C-Peptide (3-33), human • Glucagon-Like Peptide (GLP) I (7-37)
Neuroscience	<p>A wide selection of beta amyloid peptide, tau peptide and more that cater to various neuroscience research needs.</p> <ul style="list-style-type: none"> • β-Amyloid (1-40) • β-Amyloid (25-35) • β-Amyloid (1-42), human • Tau peptide (337-368) (Repeat4 domain) • Tau peptide (275-305) (Repeat2 domain) • Tau peptide (45-73) (Exon2/Insert1 domain)
Cosmetic	<p>Cosmetic peptide products are available for brightening, anti-aging, and firming. Here are some top-selling options:</p> <ul style="list-style-type: none"> • GS-PepBright™ Nonapeptide-1 • GS-PepRejuv™ Oligopeptide-1 • GS-PepRejuv™ Copper Tripeptide-1 • GS-PepFirming™ Acetyl Hexapeptide-1 • GS-PepFirming™ Acetyl Hexapeptide-8 • GS-PepFirming™ Palmitoyl Pentapeptide-4

Comprehensive Resources

Online Tools

- Peptide Property Calculator
- Peptide Analyzing Tool
- Peptide Library Design Tool

Peptide Resources

- Peptide Handbook
- Peptide Purity Guide
- Peptide Solubility Guide
- Peptide Storage & Handling Guide Tool
- Peptide Application Notes
- Peptide Webinars
- Peptide News

Case Studies

- Express Peptides
- Long Peptides
- Hydrophobic Peptides
- Modified Peptides
- Side-Reaction Prone Peptides
- Branched Peptides

Customer Testimonials

GenScript is our lab's go-to vendor when it comes to peptide synthesizing. The GenScript team has always been quick in email communication and sometimes to go over technical details over the phone. We've also compared the pricing of peptide synthesis with many other vendors and GenScript has always come back as the best price. We will definitely keep using GenScript with peptide synthesis in the future!



Yuwan Guo
University of Pennsylvania (UPenn)

We are really satisfied with GenScript's peptide synthesis service, especially for its excellent peptide quality and prompt delivery. GenScript's service was instrumental in our recent publication, spatial control of the APC/C ensures the rapid degradation of cyclin B1, where obtaining a high-resolution structure quickly was essential. I believe GenScript played a crucial role in our success.



Reyhan Muhammad
Institute Cancer Research

GenScript has been invaluable for my research, providing exceptional services. I have specifically used the peptide synthesis, gene synthesis, and antibody production services among their numerous offerings. Their products are always of the highest quality with reliable turnaround times.

The supplied peptides have very high-purity and consistent across multiple batches, which have been crucial for our cellular studies. Their expertise in the design and synthesis of custom peptides has greatly facilitated my research...

Overall, GenScript has been a preferred partner due to their commitment to innovate and expand the services that are provided. I also really appreciate the customer support.



Venkata Vamsee Mallajosyula
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