

- Regular Peptide Synthesis
- Express Peptide Synthesis
- Peptide Library Service
- Large-scale Peptide Service
- cGMP Peptide Synthesis

# Custom Peptide Service

Take Control of Your Research with Reliable Peptides from GenScript

## The Industry Leading Custom Peptide Service

With over 15 years' synthesis experience, GenScript has served more than 10,000 scientists worldwide with over 600,000 high-quality peptides. Powered by our new advanced PepPower™ technology platform, GenScript has become the industry leading peptide vendor by providing Express Peptide Service in as short as 5 days.



### Advantages

- As quick as 5-day turnaround time, leading the industry
- >98% success rate
- Over 15 years' synthesis experience
- Over 10,000 scientists served worldwide

### Popular Services

- Regular Peptide Synthesis
- Express Peptide Synthesis
- Standard Peptide Library
- Micro-scale Peptide Library
- Large-scale Peptide Synthesis
- cGMP Peptide Service

### Advanced Technology

PepPower™ integrates Solid Phase Peptide Synthesis (SPPS), Liquid Phase Peptide Synthesis (LPPS), microwave technology and our proprietary ligation, which offers capability to synthesize complex peptides at a high yield.

PepPower™ Synthesis Technologies	
Solid Phase Peptide Synthesis (SPPS)	Suitable for synthesis and purification of long and complex sequences.
Liquid Phase Peptide Synthesis (LPPS)	Suitable for efficient production of large-scale short peptides.
Microwave technologies	Amplified reaction rates with high peptide yields.
Ligation technologies	Allow for the joining of peptides of up to 200 AA.
Recombinant peptide synthesis	Suitable for long peptides (>150 residues) or peptides containing >3 disulfide bonds.

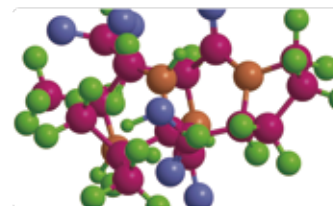
### Quality Control/Quality Assurance

GenScript's ISO 9001:2015 certified Total Quality Management platform ensures the delivery of high-quality peptides.



## Custom Peptide Service

GenScript offers high-quality peptides at several quantity and purity levels suitable for applications including antibody production, vaccine development or drug discovery. The microwave-assisted PepPower™ platform facilitates the innovative synthesis of high-quality peptides at economical prices in only 5 days.



**Regular Peptide Synthesis** — High-quality peptides delivered at 100% guaranteed maximum quantity

**Express Peptide Synthesis** — Industry Leading Speed – As Fast As 5 Days!

	Regular Peptide Synthesis (Cat no. SC1208)	Fast Peptide Synthesis*** (Cat no. SC1848)	Rush Peptide Synthesis*** (Cat no. SC1845)
Starting Delivery Time* (Business Days)	10	6	5
Sequence Length	Up to 200 AA	Up to 25 AA	Up to 25 AA
Purity	Crude to >98%	Crude to >98%	Crude
Quantity**	mg to kg	1-100 mg	
Modifications	>300 modifications	>30 modifications, including Acetylation, Amidation, 5-FAM, Biotin, FITC, KLH conjugation, etc.	

\*Delivery times are for standard sequences only. Difficult sequences or sequences with multiple modifications may require additional time.

\*\* 100% guaranteed maximum quantity delivery for peptides in quantity less than 20mg.

\*\*\* Express Peptide Synthesis Service includes Fast and Rush Peptide Synthesis Services

## Modifications

GenScript offers over 300 peptide modifications to meet your research needs, including but not limited to the following:

N-Terminus Modifications	C-Terminus Modifications	Other Modifications
<ul style="list-style-type: none"> <li>Acetylation</li> <li>Formylation</li> <li>Fatty Acid</li> <li>Benzoyl</li> <li>Benzyloxycarbonylation</li> <li>Pyroglutamyl</li> </ul>	<ul style="list-style-type: none"> <li>Amidation</li> <li>AMC</li> <li>Ester</li> <li>p-Nitroaniline</li> <li>Cysteamide</li> </ul>	<ul style="list-style-type: none"> <li>Biotin and FITC Labeling</li> <li>Disulfide Bridge</li> <li>Phosphorylation</li> <li>BSA, KLH, OVA Conjugation</li> <li>Cyclization</li> <li>Quenched Fluorescent Labeling</li> <li>Unnatural Amino Acids</li> <li>Methyl and N-Methyl</li> </ul>

## AccuPep+ QC Services

AccuPep+ QC is a collection of additional services that can ensure the future reliability and reproducibility of your custom peptides in cellular assays, kinetic studies and more.

- Solubility testing
- Endotoxin control & analysis <sup>NEW</sup>
- Moisture content analysis
- TFA Counter-ion removal
- pH testing
- NMR analysis
- Peptide content analysis
- Amino acid analysis
- HPLC-UV-Fluorescence detection

### Solubility Testing Service

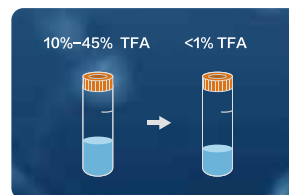
Solubility Testing Service makes working with hydrophobic peptides easier by taking the guesswork out of peptide solubility. Solubility testing deliverables include a report containing the gross peptide concentration of your peptide in multiple solvents at various pH, which will save your time, money and peptide stock. **You can request the solubility test with any solvent you want.**



Solvent	Results (Dissolved or Undissolved)	Gross Peptide Concentration
Ultrapure water	Dissolved	≤10 mg/ml
1X DPBS(pH 7.1 ± 0.1)	Dissolved	≤10 mg/ml
DMSO	Dissolved	≤10 mg/ml
Other	N/A	N/A

### TFA Removal Service <sup>Free Upgrade</sup>

Most custom peptides are delivered as lyophilized trifluoroacetic acid (TFA) salts, and can contain as much as 10-45% TFA. Residual TFA in custom peptides has been shown to interfere with cellular assays, which inhibits cellular proliferation in some instances and increases cell viability in others. GenScript's TFA Removal Service can guarantee the removal of TFA to as little as <1%.



### TFA Removal Packages

Service Type	Final TFA Counterion %				Report
	HCl	Formate	Acetate	Phosphate	
Guaranteed	<1%	<1%	<1%	N/A	Default
Standard	<10%				Optional *

In general, the TAT for Guaranteed TFA removal service is 8 days, and 2 days for Standard TFA removal service.

\* If Report is selected for Standard TFA removal service, extra cost and 1 day will be needed.

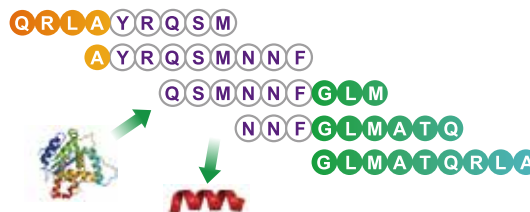
### Endotoxin Control & Analysis <sup>NEW</sup>

Endotoxin in peptides can decrease cell viability or cause an immune response. To improve your experimental success rate, our updated endotoxin control service guarantees endotoxin levels in custom peptide preparation to be ≤0.01 EU/μg.



## Peptide Library Services

GenScript's high-throughput parallel peptide synthesis platform, SPOT technology and the synthesis capacity of 12,000 peptides/month facilitate a range of cost-effective peptide library services to meet your research needs in structural biology, drug discovery and vaccine development. Additionally, we provide FREE online tools to assist with your library design.



### Service Specifications

	Standard Peptide Library	Micro-Scale Peptide Library
<b>Length</b>	5-25 AA	5-20 AA
<b>Purity</b>	Crude, >70% to >98%	Crude, >70%
<b>Quantity</b>	1-20 mg for crude 1-9 mg for purified	0.2-0.5 mg
<b>Turnaround Time</b>	3-4 weeks	3-4 weeks
<b>Minimum Order Size</b>	24 peptides	24 peptides
<b>Deliverable Format</b>	Lyophilized peptides in a 96-well plate or individual well-labelled vials	
<b>Quality Documents</b>	MS only or COA, HPLC and MS	MS, HPLC and COA
<b>Modifications</b>	Biotin, fluorescent dyes, phosphorylation, methylation, acylation, acetylation, unnatural amino acids, and many more	

## Large-Scale Peptide Synthesis

Large-scale peptide synthesis combines *de novo* scale-up protocol development with our PepPower™ synthesis platform, to ensure economical large-scale peptide synthesis with high quality. With over 15 years of combined experience, our chemists create a smooth, professional scale-up experience from protocol design to product delivery.

### cGMP Peptide Service

GenScript's custom cGMP peptide synthesis is designed to aid in the early stages of peptide drug development and expedite the maturation of your peptide drug from bench to clinical trials.

#### Service Features

- Fully equipped cGMP facility
- Batch size from mg to 2 kg
- Designated project manager
- Cost-efficient synthesis methods
- Strict raw materials screening
- Complete confidentiality



**GenScript also provides Peptoid Synthesis Service, Cosmetic Peptide Service and much more to meet your research needs.**

## Peptide Technical Resources

GenScript has developed a suite of technical resources that will help guide you from custom peptide design to custom peptide experimental preparation, including our **Peptide Chemical Formula & Molecular Weight Calculator**, **Peptide Property Calculator** and **Peptide Library Design Tools**.



Bioinformatics  
Tools



Webinars



FAQs



References



Protocols

To view more free peptide technical resources, please visit [www.genscript.com](http://www.genscript.com) and click:

[Resources & Support](#) > [Technical Resource Center](#) > [Peptide Resource Center](#)

### Featured webinars

- Avoiding Peptide Assay Failure: Hidden Problems and Solutions
- Peptide Libraries: Applications, Design Options and Considerations
- Peptide Libraries: Applications, Design Options and Considerations
- Cell Penetrating Peptides in Cancer Therapy

## Quotations and Ordering



Peptide Synthesis Online Quotation: [https://www.genscript.com/quick\\_order/custom\\_peptide](https://www.genscript.com/quick_order/custom_peptide)  
Peptide Library Online Quotation: [https://www.genscript.com/quick\\_order/peptide\\_library](https://www.genscript.com/quick_order/peptide_library)



[peptide@genscript.com](mailto:peptide@genscript.com)



1-877-436-7274 (Toll-Free)  
1-732-885-9188



1-732-210-0262  
1-732-885-5878