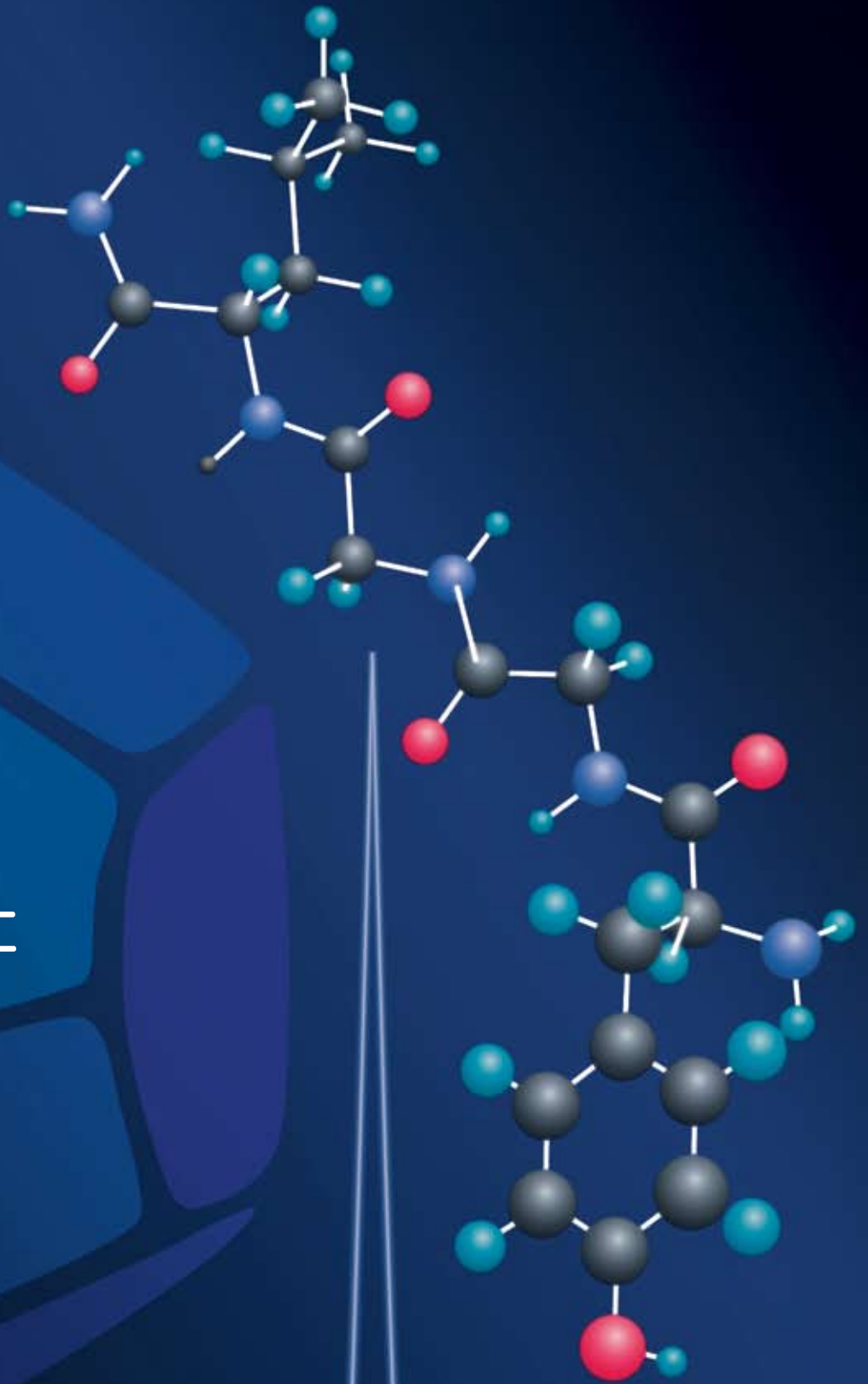




aappTec



Custom Peptide Synthesis

## CUSTOM PEPTIDE SYNTHESIS

aarrTEC provides custom peptides at an affordable price and within a reasonable time frame to research scientists worldwide. Our experienced chemists have been synthesizing custom peptides for more than 26 years in both research and production scale synthesis.

aarrTEC synthesizes custom peptides in quantities of a few milligrams for research scale to multi-kilograms for production scale. Only top quality resins, reagents and state-of-the-art methods are used in the preparation of all custom peptides to assure the highest yield and purity. MAP peptides, cyclic peptides and peptides containing unusual amino acids, modified side chains or other modifications are prepared to the same high quality standards as standard peptides.

aarrTEC custom peptides are shipped with a complete quality control package including HPLC, Mass Spectral Analysis and Certificates of Analysis to confirm the purity and identity of the peptide. From 2 amino acids to 85 amino acids, aarrTEC prepares custom peptides in the scale and purity required. Please call us to discuss your peptide requirements with our experienced staff. Strict confidentiality is assured.

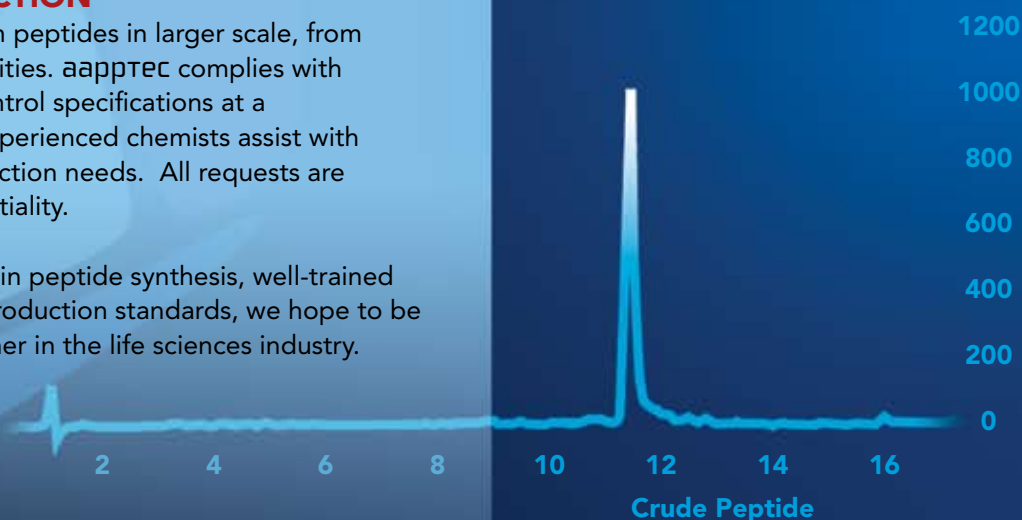
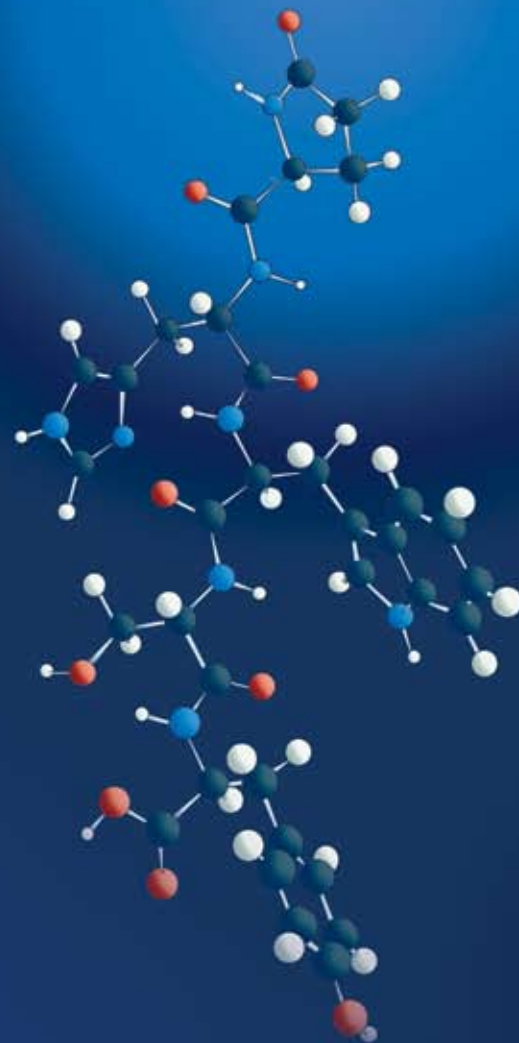
aarrTEC provides custom peptides in the following purities:

- Immunological Grade (suitable for forming polyclonal antibodies)
- 80% or greater (tissue culture; ligand for affinity purification; non-quantitative antibody blocking experiments)
- 90% or greater (in vivo studies; bioassays; markers for electrophoresis; monoclonal antibodies)
- 95% or greater (ELISA; RIA; enzyme substrate)
- 98% (NMR; chromatography standards)

## LARGE SCALE PRODUCTION

aarrTEC can produce custom peptides in larger scale, from gram to multi-kilogram quantities. aarrTEC complies with the most stringent quality control specifications at a competitive price. Let our experienced chemists assist with your development and production needs. All requests are evaluated with strict confidentiality.

For our profound experience in peptide synthesis, well-trained technical team and highest production standards, we hope to be your strong and reliable partner in the life sciences industry.



## PEPTIDE LIBRARY SYNTHESIS

aapptec can synthesize peptide libraries for epitope mapping, high-throughput screening, and SAR studies, including alanine scans and truncation sets. Peptide libraries are provided in 96-well plates with approximately 2  $\mu\text{mol}$  of lyophilized peptide in each well. aapptec utilizes optimized protocols and chemistries to ensure consistent purity, quantity and quality, batch-to-batch and within each batch.

Modifications include D-amino acids, unusual amino acids, biotin or fluorescent labeling, N-acylation or C-terminal amide.

Provide aapptec with the peptide sequences and we will prepare a quotation for your library. Libraries are typically completed in 2-3 weeks. Typical delivery consists of lyophilized peptides in 96-well titer plates, peptide location table, and MS and HPLC data.

## aapptec PREPARES PEPTIDES WITH THE FOLLOWING MODIFICATIONS:

**D-Amino Acids:** D-Ala, D-Arg, D-Asp, D-Asn, D-Cys, D-Glu, D-Gln, D-His, D-Leu, D-Lys, D-Met, D-Orn, D-Phe, D-Phe(4-Cl), D-Pro, D-Ser, D-Thr, D-Trp, D-Tyr, D-Val, D-1-Nal, D-2-Pal

**N-Methyl Amino Acids:** N-MeAla, N-MeGly, N-Melle, N-MeLeu, N-MeMet, N-MePhe, N-MeVal

**Unusual Amino Acids:** Abu (2-Aminobutyric acid), Ahx (6-Aminohexanoic acid), Aib (2-Aminoisobutyric acid),  $\beta$ -Ala, (beta-Alanine), Har (Homoarginine), Hcy (Homocysteine), Hfe (Homophenylalanine), Hse (Homoserine), Hyp (Hydroxyproline), Mpa (3-Mercapto-propionic acid), D-1-Nal (D-1-Naphthylalanine), Nle (Norleucine), Nva (Norvaline), Orn (Ornithine), D-Orn (D-Ornithine), D-2-Pal (D-2-Pyridylalanine), Pen (penicillamine), pGlu (Pyroglutamic acid), D-Phe(4-Cl) (D-4-Chloro-phenylalanine), Phg (Phenylglycine), Other unusual amino acids

**Phosphorylation:** Tyr, Ser, Thr (single site)

**Sulfonation:** Tyr(SO<sub>3</sub>H)

(continued on back)



## **aappTEC CAN PREPARE PEPTIDES WITH THE FOLLOWING MODIFICATIONS:**

**Cysteine Derivatives:** Cys(Acm), Cys(tBu)

**Lysine Derivatives:** Lys(DNP), Lys(Me<sub>2</sub>), Lys(Ac)

**Serine Derivatives:** Ser(octanoic acid)

**Isotopic Amino Acids:** <sup>13</sup>C, <sup>15</sup>N, Deuterium (<sup>2</sup>H)

**N-Terminal Modifications:** Acylation, Formylation, Succinylation, Myristylation, Palmytolation, Benzyloxycarbonylation (Cbz)

**C-Terminal Modification:** Amidation (NH<sub>2</sub>, NHEt, NHMe), p-Nitroanilide (pNA), AMC, NHS (OSu), CMK/FMK, Ester (OMe, OEt, OBzl, OtBu)

**Cyclic Peptide:** 1 Disulfide Bridge, 2 Disulfide Bridges, 3 Disulfide Bridges, Amide Cyclic (Side-chain, End)

**Multiple Antigenic Peptide System:** Asymmetric 4 branches, Asymmetric 8 branches, KLH, BSA/OVA

**Fluorescence/Dye Labeling:** Biotin (N-Terminal, with or without Ahx), Biotin (Lys sidechain), FITC/5-FAM (N-Terminal, with or without Ahx), FITC/5-FAM (Lys sidechain), Dansyl (N-Terminal, with or without Ahx), MCA (N-Terminal), HYNIC (N-Terminal), DTPA (N-Terminal)

**Quenched Fluorescent Peptide:** Abz/Tyr(3-NO<sub>2</sub>), EDANS, DABCYL

**Additional Services:** Amino Acid Analysis, Aliquots



# aappTEC

advanced automated  
peptide protein technologies