

Comprehensive Peptide Solutions

For over a decade, Aragen has delivered specialized peptide discovery and development solutions through our integrated peptide platform—PeptAR. It takes you seamlessly from concept to clinic. PeptAR is powered by a 130⁺ member peptide team, including 90 chemists and 40 analysts, and strengthened by in-house biology teams. With unmatched speed and reliability, PeptAR, accelerates peptide discovery and development, synthesizing nearly 400 peptides, ranging from milligram to multigram scale every month to help you meet timelines without compromise.



Chemistry Expertise

- Metal catalyzed or metal free late-stage modification of peptides.
- Protein synthesis (> 150AA) in gram scale
- Linear, branched, cyclic and stapled peptides
- 40-50 AA, mg to gm, Peptide libraries
- Solid, liquid, hybrid, TAG-assisted, native chemical/KAHA ligation
- C- & N-terminal, cyclization, backbone modifications, late-stage functionalization, and conjugation reactions
- Non-GMP scale-up
- Purification and characterization

Biology Expertise

- Peptide mapping/fingerprinting
- Plasma protein binding using Rapid Equilibrium Dialysis or Ultrafiltration
- Stability in buffer, simulated gastric fluids, liver, kidney, intestinal S9, hepatocytes or plasma
- Half-life, metabolite identification and profiling
- Pharmacokinetics and Quantitative bioanalysis: rat, mouse, dog, rabbit
- Mass/ QTOF spectrometry analysis

Track Record of Success

- Library development: linear/cyclic peptides, 2-20 mg, up to 20mer, >90% purity
- Successful synthesis of challenging peptide moieties
- Hydrophobic peptides with disruptors (dmb, hmb protected amino acids / pseudoprolines, chaotropic agents)
- Cyclic peptides (S-S bridging, cyclization, stapling, RCM, thioether)
- Process optimization and non-GMP scale-up to multi-gm scale (>500g, 98% pure, single impurity <0.5%)
- Modified interleukin protein synthesis (>150 amino acid, >10g scale) using ligation techniques (NCL/KAHA)
- Long chain peptides and folding





World Class Infrastructure

- Microwave assisted peptide synthesizer- Liberty blue
- CEM-multipep-2 parallel peptide synthesizer
- Parallel automated synthesizer with online UV- Symphony X
- Automated scale-up peptide synthesizer- Sonata
- Up to 10 L reactors for scale-up
- Lyophilization at scale (Tree and tray lyophilizers)











Analytical Capabilities

- Peptide characterization by UV, LCMS, HRMS and NMR
- Purification by RP Preparative HPLC (2000 to 80000 Da)
- Up to 100mm dia DAC column for scale-up purification
- Quality control of all custom peptides and peptide libraries









