

# PeptAR<sub>x</sub>

## Aragen's Integrated Peptide Platform

Custom Peptide Synthesis | Cyclic Peptides |  
Peptide Conjugates | Scale-Up



### Who We Are

With **10+ years of peptide chemistry expertise**, PeptAR<sub>x</sub> supports innovators from concept to preclinical scale with **end-to-end peptide services**—delivered by **130 peptide chemists** in Hyderabad. Our platform combines **advanced synthetic chemistry**, **robust analytics**, and **scalable infrastructure** to accelerate peptide discovery and development.

### What We Deliver

**One platform. Every peptide need.**

#### Custom Peptide Synthesis

Accelerate discovery with high quality custom peptides engineered for complexity, speed, and downstream development success.

- Linear, branched, **cyclic**, stapled and bi-cyclic peptides
- **Challenging sequences**; long peptides & protein fragments via NCL/KAHA
- PNAs, peptoids, peptidomimetics
- **Peptide conjugation** (fluorescent probe, lipid, PEG, protein, oligonucleotide, carbohydrate etc.)
- **Library & parallel synthesis** with rapid crude to pure workflows

#### Unnatural Amino Acids (UAAs)

Expand chemical space with engineered building blocks tailored for potency, stability, and target selectivity.

- **500+** catalogued UAAs across diverse chemical classes
- **100+** custom UAA syntheses/year
- **Backbone engineering**: N-alkylated, constrained,  $\beta$ -amino acids, glycosylated residues
- **Stereocontrol & functionalization**:  $\alpha/\beta$  selectivity, rigid scaffolds, bioorthogonal handles
- **Scalable integration**: On resin insertion, solution incorporation, fragment coupling

#### Advanced Peptide Engineering

Unlock next-generation modalities with PeptAR<sub>x</sub> through precision cyclization and structural constraint engineering for superior therapeutic performance.

##### Cyclization Technologies

**Lactam bridges | Disulfide bonds | Click-based chemistry | Thioether formation | C-C stapling | Suzuki & Heck coupling**

Using **orthogonal protecting groups** (Allyl, Alloc, Dde, Mtt, Pmb), we construct **multi-bridged, highly constrained cyclic peptides with exceptional structural precision**.

## Peptide Conjugates

Enhance targeting, delivery, and imaging with PeptAR<sub>x</sub> through multifunctional peptide conjugates designed for translational impact.

- Peptide–drug / toxin conjugates
- DOTA–metal scaffolds
- GalNAc / Lipid / PEG conjugates
- PPMO / POC / PDC
- Peptide–protein bioconjugates
- Fluorescent / tagged peptides (>1 g, >97% purity)

## Scale Up & Non-GMP Supply

Advance peptide development from discovery to preclinical scale with PeptAR<sub>x</sub> through reliable, high-purity batches engineered for seamless program progression.

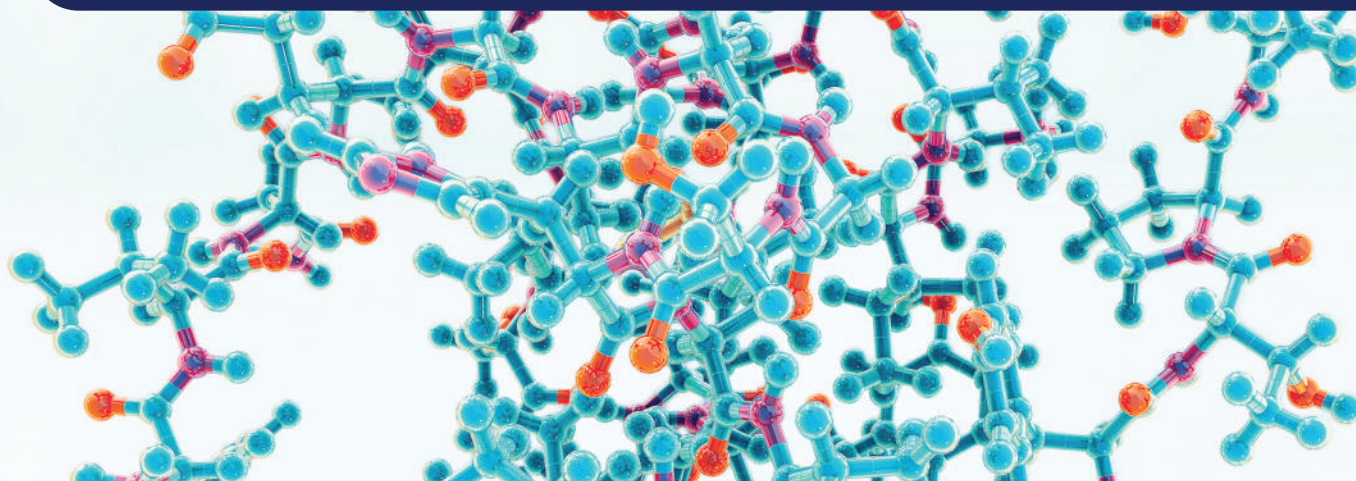
- **>500 g** batches; **purity >98%**, scalable toward **kilograms**
- **Hybrid SPPS / solution phase** strategies for difficult sequences
- Reliable transition from **discovery output to IND enabling** volumes

## Why PeptAR<sub>x</sub>

- **Complex Chemistry Expertise:** Long peptides, difficult sequences, multifunctional constructs
- **Advanced UAA Capability:** Broad catalog, rapid custom design, stereocontrolled synthesis
- **Cutting-edge Engineering:** Precision cyclization and conjugation for constrained architectures
- **High Throughput:** 1,500+ linear and 2,500+ cyclic peptides/year
- **Quality Workflows:** LCMS, HRMS, HPLC, <sup>1</sup>H NMR with final QC and 24/7 purification
- **End-to-End Platform:** Discovery to non-GMP scale-up under one roof

### Ready to move your peptide program forward?

Talk to Aragen's peptide scientists and discover how we can accelerate your molecule from design to scaled delivery.



For more information, contact [info@aragen.com](mailto:info@aragen.com)  
[www.aragen.com](http://www.aragen.com)

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