

PEPTIDES

Aurigene Pharmaceutical Services has decades of experience in providing services for peptide drug discovery, development and formulation manufacturing and is specialized in the synthesis of various types of peptides from few milligrams to multi kilogram scale. Our unique capability includes the synthesis of a wide variety of peptides such as solid, liquid and hybrid phase peptides. Our state-of-the-art labs and analytical instruments can synthesize peptides ranges from simple linear peptides to its very complex forms.

Our comprehensive offering integrates a continuum of services for custom peptide synthesis including:

- ✓ Peptide discovery
- ✓ Preclinical studies
- ✓ Feasibility studies
- ✓ Process development
- ✓ Process optimization and validation
- ✓ Preformulation and formulation studies
- ✓ Commercial manufacturing (API and formulation)
- ✓ Regulatory and marketing support

Complex peptide synthesis:

- ✓ Microwave peptide synthesis enables high throughput synthesis of complex peptides (hindered and N-alkylated amino acids) in a short time with a capacity of 15 L.
- ✓ Linear and branched chain peptide synthesis at small scale up to 70 AA, development and manufacturing up to 40 AA.
- ✓ Peptide derivatives and labelling with PEG, lipid, steroid, biotin, rhodamine green, carboxyfluorescein and Alex Flour.
- ✓ Synthesis of conformationally constrained peptides i.e. stapled, lactam bridged, disulfide bridging and head to tail cyclisation.
- ✓ Lyophilization (Capacity: 3 x 100 L) process for unstable peptides by understanding the thermal sensitivity.
- ✓ Peptide design for potency, ADME and PK optimization.

Our peptide analytical offering includes:

A wide range of purification processes to achieve the peptide's desired purity such as chromatography using reverse phase, ion exchange, gel permeation and membrane filtration processes. Also evaluation of solutions for purification using crystallization techniques to enable batch manufacturing at higher scale.

- ✓ LC and HR-MS for mass and primary structures
- ✓ HPLC determination of assay and impurity profile
- ✓ Characterization by NMR
- ✓ Sequence analysis
- ✓ Determination of heavy metals and counter ions
- ✓ Determination of N-terminal