

CUSTOM PEPTIDE SYNTHESIS



SOLID PHASE SYNTHESIS



LIQUID PHASE SYNTHESIS



HYBRID PHASE SYNTHESIS

- Length | Scale - up to 60 AA | mg-multi g scale
- Purity by HPLC: >80% to >95%
- Throughput: over 12-mer in 90 minutes and over 33-mer in 3 hours at 100mg or more as TFA, Acetate or HCl salts.
- High Efficiency-SPPS: 4-minute cycle time along with a 90% waste (solvent) reduction.
- Focused & small libraries of custom peptides
- Modified peptides incorporating unnatural, unusual, and specifically derivatized amino acids.
- Peptide Reagents Expertise (based on Fmoc or Boc solid-phase synthesis, and the nature of peptide sequence): amino acids, resin linkers, protecting groups, dyes and fluorescent labelling reagents, coupling, activating, deprotection, oxidation, reducing, base, and cleavage reagents, etc.



**LIBERTY BLUE 2.0 MICROWAVE
PEPTIDE SYNTHESIZER**

PEPTIDE MODIFICATION

TERMINAL

- N-terminal: acylation, formylation, methylation, biotinylation, fluorescent labeling, amine modification, nitrile formations, etc.
- C-Terminal: amides & alcohols

CYCLIZATION

- Cys-Cys cyclization
- Head-to-tail amide bond formation
- Head-to-tail cyclization of PEG containing peptides
- Ring closing metathesis
- Thioether peptides
- Triazole peptides
- Macrocyclic peptides
- Branched peptides

OTHERS

- Peptoids
- Poly AA linkers
- Stapled (mono & double) peptides
- Linear & Lactam peptides
- Disulfide peptides

PURIFICATION & CHARACTERIZATION:

- Dedicated reverse phase HPLCs
- Confirmation of molecular ions, genotoxic impurities & nitrosamines quantification (~1 PPM) by LC-MS/MS
- Delivering lyophilized compounds as white powder: ScanVac system



SCAN, TO EXPLORE THE BREADTH & DEPTH OF OUR EXPERTISE