

Fees of Synthesizing Peptides

Synthesis

- Machine: CEM LibertyBlue®,
- Handling type: Solid-phase Peptide Synthesis (SPPS),
- Cleavage: Commonly use TFA/H₂O/TIS (95/2.5/2.5, v/v/v),
- Crude sample was obtained through ether-mediated precipitation and drying under high vacuum.

Purification

- RP-HPLC on either WATERS or Shimadzu HPLC,
- Column: WATERS XBridge® Peptide BEH, C18 column, 300 A, 5 μm, 4.6x100 mm,
- Conditions: A gradient of 0-100% B in 30 min,
Solvent A: H₂O+0.1% TFA (v/v),
Solvent B: ACN+0.1% TFA (v/v).
Detection: PDA@214 and/or 254 nm

Characterization

- MALDI (IMB)/ESI-TOF (GRC) Mass analysis,
- QC: HPLC analysis and determination.

Rate table of regular/modified peptides

Items	IBC users	AS users (non-IBC)
Regular		
<i>Crude peptide</i>	250 NTD/1 AA	600 NTD/1 AA
<i>Purified peptide (>95% purity)</i>	500 NTD/1 AA	900 NTD/1 AA
Modifications^a <i>(pricing by counting how many positions required to be modified)</i>		
<i>Phosphorylation</i>	3,000 NTD/1 AA	4,000 NTD/1 AA
<i>Biotinylation</i>	3,000 NTD/1 AA	4,000 NTD/1 AA
<i>Acetylation</i> <i>(on N-end or Lys side chain)</i>	2,000 NTD/1 AA	3,000 NTD/1 AA
<i>FITC/FAM (fluorescent probes/dyes)</i>	3,000 NTD/1 AA	4,000 NTD/1 AA
<i>Cyclized peptide</i>	3,000 NTD/1 AA	4,000 NTD/1 AA
<i>O/N-Glycosylation</i>	To be discussed and pricing	
<i>Oxidation to Sulfenic/sulfonic acid</i> <i>(on Cys residue)</i>	To be discussed and pricing	

^a The extra cost of materials used for modification such as the protected phospho-amino acid building block, biotin-NHS, protected glycan building blocks, FITC/FAM-NHS or oxidants is needed to be paid by user.