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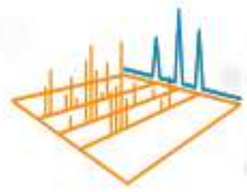
Peptide Analysis

Employing Comprehensive Array of Techniques & Methods for the Accurate Quantification & Analysis of Peptides

Analytical Techniques Used for Separating, Detecting, and Quantifying Peptides

LC-MS (Liquid Chromatography Mass Spectrometry)

Immunoassays



High resolution Mass spectroscopy (HRMS)

Sample Preparation

Effectively minimizing matrix effects by applying rigorous sample preparation methods involving extraction, purification, and concentration of peptides.

Sample Preparation Techniques Used

- Solid-Phase Extraction (SPE)
- Liquid-Liquid Extraction (LLE)
- Protein Precipitation

Ensuring Optimal Chromatographic Conditions

Mobile Phase and Stationary Phase Selection

Crucial for separating the peak of interest from interfering peaks.

Optimization

Adjusting parameters to establish optimal chromatographic conditions for peptide separation.

Quantification Methods used for Peptide Analysis

01. Calibration Standards

02. Stable Isotopic Labeling

03. Label-Free Approaches

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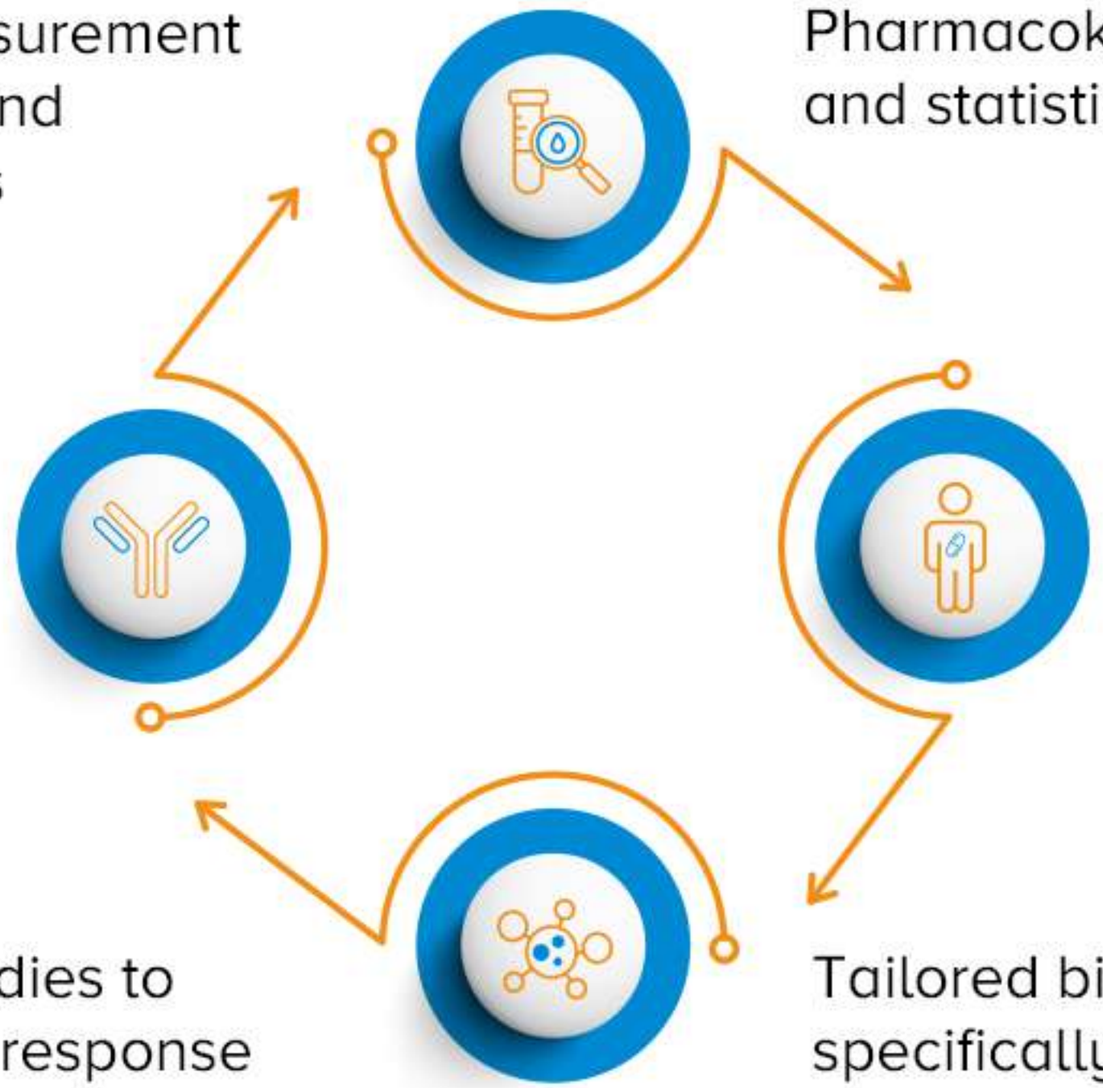
GLP-1 : Comprehensive Bioanalytical Support

Serum/Plasma Measurement for both reference and biosimilar GLP-1 RAs

Pharmacokinetic (PK) calculations and statistical analysis



Immunogenicity studies to assess the immune response

Tailored bioanalytical methods specifically for different GLP-1 analogues

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