Characterization Of Protein Therapeutics Using Mass Spectrometry

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Characterization Of Protein Therapeutics Using

In Characterization of Protein Therapeutics using Mass Spectrometry, expert contributors from academia and industry highlight current approaches and future trends. The book discusses mass spectrometry techniques as related to the analysis of protein therapeutics, structural identification strategies and quantitative approaches.

Characterization of Protein Therapeutics using Mass ...

Protein Therapeutics Characterization High-resolution characterization of therapeutic protein Poochon developed a robust approach using a range of state-of- the-art orthogonal methodologies to elucidate the primary amino acid sequence, post-translational modifications, associated micro-heterogeneity, glycosylation associated with a therapeutic product.

Protein Therapeutics Characterization | Poochon Scientific

This book highlights current approaches and future trends in the use of mass spectrometry to characterize protein therapies. As one of the most frequently utilized analytical techniques in pharmaceutical research and development, mass spectrometry has been widely used in the characterization of protein therapeutics due to its analytical sensitivity, selectivity, and specificity.

Characterization of Protein Therapeutics using Mass ...

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9781489973641 - Characterization of Protein Therapeutics ...

Abstract. Quantitation of particles >10 µm in therapeutic protein formulations is required by pharmacopeia guidelines, and characterization of particles <10 µm is increasingly expected. Established methods offer limited ability to detect or characterize small particles; consequently, new methods are needed to measure the sub-10 µm size range.

Characterization of Protein Particles in Therapeutic ...

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Characterization of Protein Particles in Therapeutic ...

In this manuscript, methods of chemical and physical characterization of therapeutic proteins are described. In terms of chemical characterization, analysis of chemical modifications of the constituent amino acids is explained. Physical characterization includes higher order structural

analysis and assessment of protein aggregates.

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Characterization of Protein Therapeutics using Mass ...
In this work, we explore hydrogel-encapsulated, label-free fluorescent nanosensors for the characterization of protein aggregation. A mathematical model is used to describe the diffusion and binding of a series of stressed pharmaceutical samples to such sensors, describing their dynamic response.

Characterization of Protein Aggregation Using Hydrogel ...
Given this background, a method which allows for characterization of interactions of PS ASOs with individual plasma proteins from the different species used for preclinical development of nucleic acid therapeutics could be beneficial.

Characterization of the interactions of chemically ...
This chapter focuses on the common molecular variants and degradation pathways of protein therapeutics generated under normal manufacturing and storage conditions. The analytical characterization of biologics is intended to provide an understanding of the structures and properties of molecular variants, which can be generated during cell culture, protein purification, storage, and in vivo ...

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Applications of mass spectrometry for the structural characterization of recombinant protein pharmaceuticals, Srebalus Barnes CA and Lim A, Mass Spectrometry Reviews 26, 2013, 370-388. Characterization of protein therapeutics by mass spectrometry: recent developments and future directions, Che G, et al. Drug Discovery Today 16(1/2), 2011, 58-64.

LC-MS based multi-attribute method for characterisation ...
Title:Characterization of Protein Higher Order Structure Using Vibrational Circular Dichroism Spectroscopy VOLUME: 14 ISSUE: 2 Author(s):Radhika P. Nagarkar, Brian M. Murphy, Xiaotong Yu, Mark Cornell Manning and Wasfi A. Al-Azzam Affiliation:Bioanalytical Sciences, Biopharmaceutical Development R&D, GlaxoSmithKline, 709 Swedeland Rd, King of Prussia, PA 19406.

Characterization of Protein Higher Order Structure Using ...
The ability to characterize micrometer and submicrometer particles in solution is of fundamental importance to understanding the relationship between protein particles in biotherapeutics and concerns raised regarding immunogenicity. While a number of characterization methods are available for analyzing subvisible particle content in protein pharmaceuticals, counting and characterizing ...

Quantification and Characterization of Micrometer and ...
Characterization of pharmacokinetic (PK) properties and target tissue distribution of therapeutic fusion proteins (TFPs) are critical in supporting in vivo efficacy. We evaluated the pharmacokinetic profile of an investigational TFP consisting of human immunoglobulin G4 fused to the modified interferon alpha by orthogonal bioanalytical assays and applied minimal physiologically based ...

Pharmacokinetic Characterization and Tissue Distribution ...
Detailed profiling of both enzymatic (e.g., glycosylation) and non-enzymatic (e.g., oxidation and deamidation) post-translational modifications (PTMs) is frequently required for the quality assessment of protein-based drugs.Challenging as it is, this task is further complicated for the so-called second-generation biopharmaceuticals, which also contain “designer PTMs” introduced to either ...

Characterization of a PEGylated protein therapeutic by ion ...
The fusion of an Fc moiety to a therapeutic protein is widely applied as a half-life extension strategy. However, unlike monoclonal antibodies, Fc-fusion proteins have been shown to be more susceptible to protease-mediated catabolism. The resultant catabolites may still be pharmacologically active and therefore require characterization. We combined intact protein LC-MS and digestion LC-MS/MS ...