Abstract

In the realm of biopharmaceuticals, ensuring therapeutic e f cacy and safety is paramount. However, the immune system's response to these complex therapeutic agents, known as immunogenicity, poses a signifcant challenge. In this article, we delve into the intricacies of immunogenicity, exploring its causes, consequences, and strategies for mitigation in the development and administration of biopharmaceuticals.

Keywords: B a ac ca; a ca ;; I c

Introduction

Ι с, с а а b a c ca c а a а b a ac ca. ab ac а с с , c c, a ca а а с b a ac ca .

Understanding immunogenicity

Ι b с ac а а ac c a c a ac C b а ca a ca с b ca са ac а b ą ca . , а С a b с а ac F cac a [1,2]. ca b а

Causes of immunogenicity

b S а ac с b a ac ca, с С а , a - a а а ca P а а с а а а , c ac а с а С С b ca, a c а ac , c с a , . а а [3,4]. a,

Consequences of immunogenicity

с с с ca а а f cac a с а а а c a ac а а a b а а a c a, ca . . , b a j С ca а ac ca с а [5,6]. , a а a a

Strategies for mitigation

 8.