

Recombinant Protein G, His-tagged

Cat. No. COP10 Lot. No. (See product label)

SPECIFICATION

Species	Bacterial
Source	E.coli
Product Overview	Recombinant Staphylococcus Aureus Protein G148 contains the polyhistidine tag at N-terminus and a single cysteine at C-terminus, was expressed in E. coli.
Description	Protein G is an immunoglobulin-binding protein expressed in group C and G Streptococcal bacteria much like Protein A but with differing specificities. It is a 65-kDa (G148 protein G) and a 58 kDa (C40 protein G) cell surface protein that has found application in purifying antibodies through its binding to the Fc region. The native molecule also binds albumin, however, because serum albumin is a major contaminant of antibody sources, the albumin binding site has been removed from this recombinant form of Protein G.
Form	Bulk protein in a 0.22 µm filtered solution of PBS, pH 7.4 and delivered as liquid formulation or lyophilized powder. Normally 5-8% trehalose and mannitol are added as protectants before lyophilization.
Molecular weight	31kDa
Endotoxin	Less than 0.01 ng endotoxin/µg Recombinant Protein G.
Purity	>98% as determined by SDS-PAGE of 2 µg reduced recombinant proteins. All lots are greater than 98% pure.

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Storage

Store at -20°C in lyophilized state after receipt. For long term storage, upon reconstitution Recombinant Protein G should be aliquot and store at -20°C or -80°C. Avoid repeated freeze-thaw cycles.

Background

Introduction

Staphylococcus aureus is a facultative anaerobic Gram-positive cocci bacterium. It is frequently found as part of the normal skin flora on the skin and nasal passages. S. aureus is the most common species of staphylococci to cause Staph infections. S. aureus can cause a range of illnesses from minor skin infections, such as pimples, impetigo, boils (furuncles), cellulitis, folliculitis, carbuncles, scalded skin syndrome, and abscesses, to life-threatening disease such as pneumonia, meningitis, osteomyelitis, endocarditis, toxic shock syndrome (TSS), bacteremia, and sepsis.

Keywords

RPG; Protein G; Protein G; IgG binding protein G; IgG-binding protein G; Immunoglobulin G binding protein G [Precursor]; spg

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