Recombinant Protein G, His-tagged

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

SPECIFICATION

Product Overview	
Species	Bacterial
Source	E.coli
ProductOverview	Recombinant Staphylococcus Aureus Protein G148 contains thepolyhistidine tag at N-terminus and a single cysteine at C-terminus, wasexpressed in E. coli.
Description	Protein G is an immunoglobulin-binding protein expressed ingroup C and G Streptococcal bacteria much like Protein A but with differingspecificities. It is a 65-kDa (G148 protein G) and a 58 kDa (C40 protein G)cell surface protein that has found application in purifying antibodiesthrough 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 ofProtein G.
Form	Bulk protein in a 0.22 μm filtered solution of PBS, pH 7.4and 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.

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Purity	>98% as determined by SDS-PAGE of 2 μg reducedrecombinant proteins. All lots are greater than 98% pure.	
Storage	Store at -20℃ inlyophilized state after receipt. For long term storage, upon reconstitutionRecombinant Protein G should be aliquot and store at -20℃ or -80℃. Avoid repeated freeze-thaw cycles.	
Background	Introduction	Staphylococcusaureus is a facultative anaerobic Gram-postive coccal bacterium. It isfrequently found as part of the normal skin flora on the skin and nasalpassages. S. aureus is the most common species ofstaphylococci to cause Staph infections. S. aureus cancause 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 shocksyndrome (TSS), bacteremia, and sepsis.
	Keywords	RPG;Protein G; ProteinG; IgG binding protein G; IgG-binding protein G;Immunoglobulin G binding protein G [Precursor]; spg

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