



Product Datasheet

Product Name Protein G Recombinant

Cata No CB501023

Source

Synonyms

Description

Recombinant streptococcal protein G lacking the albumin binding region thereby avoiding undesirable reactions with albumin, though the Fc binding domain is still present. The recombinant Protein G is produced in Escherichia coli using sequence from Streptococcus C1-C2-C3. The Protein G contains amino acids 190-384 having a molecular mass of 21.6 kDa. The Protein-G migrates on SDS-PAGE around 32 kDa.

Purity

>95% as determined by SDS-PAGE and RP-HPLC

Formulation

Lyophilized white Powder containing no additives.

Reconstitution

Reconstitution with deionized water or PBS.

Sequence

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MTYKLILNGKTLKGETTTEAVDAATAEKVFKQYAN  
DNGVDGEWYDDAT  
KTFTVTEKPEVIDASELTPAVTTYKLVINGKTLKGE  
TTTEAVDAATAEKVFK  
QYANDNGVDGEWYDDATKTFTVTEKPEVIDASE  
LTPAVTTYKLVINGKTL  
KGETTTKAVDAETAEKAFKQYANDNGVDGVWY  
DDATKTFTVTE
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Applications

Protein G binds to the constant region of many species of immunoglobulin G. It can be used to detect, quantify and purify IgG antibodies and antibody/antigen complexes. Recombinant Protein G contains only IgG binding domains. The albumin-binding domain as well as cell wall and cell membrane binding domains have been removed to ensure the maximum specific IgG binding capacity.