# Recombinant Protein G

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| **Catalog No.** | CRP154A | **Quantity:** | 1.0 mg |
| | CRP154B | | 10 mg |
| | CRP154C | | 100 mg |

**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 *E. 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.

**Source:** *E. coli*

**Molecular Weight:** 21.6 kDa

**Formulation:** Lyophilized from a solution without additives.

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

**Amino Acid Sequence:** MTYKLILNGK TLKGETTTEA VDAATAEKVF KQYANDNGV DGEWTYDDAT KTFTVTEKPE VIDASELTPA VTTYKLVIN GKTLKGETT TEAVDAATAE KVFKQYAND NGVDGEWTY DDATKTFTVT EKPEVIDAS ELTPAVTTYK LVINGKTLKG ETTTKAVDAE TAEKAFKQYA NDNGVDGVWT YDDATKTFTVTE

**Reconstitution:** **Centrifuge vial prior to opening**. Reconstitution with deionized water or PBS.

**Storage & Stability:** 2 years at -20°C. After reconstitution, aliquot and store at -20°C.
**Avoid repeated freeze/thaw cycles.**

**Specificity:** 1. Binds with greater affinity to most mammalian immunoglobulins than Protein A, including human IgG3 and rat IgG2a.
2. Does not bind to human IgM, IgD and IgA.

**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.
The optimal concentration should be determined by the user for each specific application.

**NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.**

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