



## RayBiotech, Inc.

3607 Parkway Lane suite 200  
Norcross, GA 30092  
Tel: 770-729-2992, 1-888-494-8555  
Fax: 770-206-2393  
Website: [www.raybiotech.com](http://www.raybiotech.com)  
Email: [info@raybiotech.com](mailto:info@raybiotech.com)

# Certificate of Analysis and Data Sheet Recombinant Protein G

**Catalog No.**  
228-11330

**Source**  
N/A

### **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.

### **Formulation:**

Lyophilized white Powder containing no additives.

### **Purity:**

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

### **Amino Acid Sequence:**

MTYKLILNGKTLKGETTTEAVDAATAAEKVFKQYANDNGVDGEWTYDDATKTFTVTEKPEVIDASELTPA  
VTTYKLVLINGKTLKGETTTEAVDAATAAEKVFKQYANDNGVDGEWTYDDATKTFTVTEKPEVIDASELTP  
AVTTYKLVLINGKTLKGETTTKAVIDAETA EKAFKQYANDNGVDGVWTYDDATKTFTVTE .

### **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.

### **Reconstitution:**

Reconstitution with deionized water or PBS.

### **Storage:**

2 years at -20°C. After reconstitution, aliquot and store at -20°C.

**Avoid repeated freeze/thaw cycles.**

### **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 products are furnished for LABORATORY RESEARCH USE ONLY.  
Not for diagnostic or therapeutic use.**