

spg

Recombinant Cys-Protein G

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|---------------------------------|--|------------------|----------------------|
| Catalog No. | CS479A CS479B CS479C | Quantity: | 1 mg 10 mg 1 g |
| Alternate Names: | Immunoglobulin G-binding protein G | | |
| Description: | <p>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 3 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.</p> <p>Recombinant Cys-Protein G contains 201 amino acid residues of the <i>Streptococcus</i> sp including a Cys residue at N-terminus.</p> | | |
| UniProt ID: | P19909 | | |
| Source: | <i>E. coli</i> | | |
| Molecular Weight: | Recombinant Cys-Protein G has a predicted molecular mass of approximately 21.9 kDa but migrates with an apparent molecular mass of about 40 kDa in SDS PAGE. | | |
| Formulation: | Lyophilized with no additive. | | |
| Purity: | >95% by SDS-PAGE and RP-HPLC | | |
| Endotoxin Level: | < 0.1 EU/μg, determined by LAL method. | | |
| Specific Activity: | <ol style="list-style-type: none"> 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. | | |
| Amino Acid Sequence: | CLPKTDTYKL ILNGKTLKGE TTTEAVDAAT AEKVFQKQYAN DNGVDGEWY DDATKTFTVT EKPEVIDASE LTPAVTTYKL VINGKTLKGE TTTEAVDAAT AEKVFQKQYAN DNGVDGEWY DDATKTFTVT EKPEVIDASE LTPAVTTYKL VINGKTLKGE TTTKAVDAET AEKAFKQYAN DNGVDGVWY DDATKTFTVT E | | |
| Reconstitution: | Centrifuge vial prior to opening. Dissolve in distilled water or saline. | | |
| Storage & Stability: | Lyophilized protein is stable for 1 year at -20°C to -80°C. After reconstitution, aliquot and store at -20°C to -80°C. Avoid repeated freeze/thaw cycles. | | |

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



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