



Recombinant Protein G

Protein G is a cell wall protein isolated from G Streptococci, which has two IgG binding domains, albumin and a cell surface binding site. The recombinant protein G was expressed in Escherichia coli, which removed albumin and cell surface binding sites and reduced non-specific adsorption. Protein G binds best at pH 5.0, but also works well between pH 7.0-7.2. Compared with Protein A, Protein G has stronger binding ability to IgG of most mammals, and it can also bind rat IgG2a, human IgG3 and mouse IgG1 that cannot bind Protein A well. Protein G does not bind to human IgM, IgD and IgA. The difference in the binding properties of Protein A and Protein G may be due to the different composition of the IgG binding sites of the two proteins.

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| Catalog No. | 5180002 |
| Size | 5mg / 20mg |
| Product Category | Recombinant Protein |
| Expression Host | E.coli |
| Tag Fusion | 6x His Tag |
| Mol. Weight | 14.2 kDa \pm 1kDa |
| Purity | >95% by HPLC and SDS-PAGE |
| Formulation | Lyophilized, 0.2um filtered solution of 1x PBS (pH 7.3) |
| Reconstitution | Reconstitute with distilled PBS |
| Synonyms | Staphylococcal protein G; SPG |
| Storage/Stability | -20°C for 1 year |
| Shipping | Gel Packs |