

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.

Catalog No.	5180002
Size	5mg / 20mg
Product Category	Recombinant Protein
Expression Host	E.coli
Tag	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