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## Recombinant protein G

Catalog Number: bs-0361P

AA Seq: N/A

Detected MW: 22.0 kDa

Tags: Tag free

Activity: Yes

Endotoxin: Not analyzed

Purity: >90% as determined by SDS-PAGE

Purification: AC

Storage: Stored at -70°C or -20°C. Avoid repeated freeze/thaw cycles.

**Background:** Protein G is an immunoglobulin-binding protein expressed in group C and G Streptococcal bacteria much like Protein A but with differing specificities. It is a 65-kDa (G148 protein G) and a 58 kDa (C40 protein G)[1] cell surface protein that has found application in purifying antibodies through its binding to the Fc region. The native molecule also binds albumin, however, because serum albumin is a major contaminant of antibody sources, the albumin binding site has been removed from recombinant forms of Protein G. Recombinant protein G has a very high affinity for the Fc regions of IgG molecules. Immobilisation of protein G on beads creates an affinity resin which can be used to purify IgG fractions from crude serum, ascites fluid or cell culture media.