

Protein G

Version 2014-12-15

Cat. No.: Z02007**Synonyms:** Protein G; G Protein**Size:** 5 mg**Source:** *E. coli***Purity:** This product is chromatographically purified and shows predominantly a single band by SDS-PAGE.

Focusing: pI of 4.69

Specific Activity: The theoretical binding capacity is 3 mol IgG/mol protein G. Protein G is assayed using ELISA. The optimal concentration for coating plate is 5 ug/ml.**Storage:** This product is lyophilized in 1X PBS. It will remain stable at 4°C for several weeks. For longer periods, store it at -20°C.**Description:**

Datasheet

Protein G, a cell surface protein of group G streptococci, is a Type III Fc receptor that binds to the Fc region of IgG by a non-immune mechanism similar to that of protein A from *Staphylococcus aureus*. This product contains three IgG binding domains, but its albumin-binding region has been removed. Additionally, His-tag and cysteine have been added to N- and C-termini, respectively, to facilitate purification and conjugation. This does not affect the protein's ability to bind to IgG.

References:

Kang M, *et al.* G-protein coupled receptor signaling in myocardium: not for the faint of heart. *Physiology* (Bethesda). Jun 2007; 22(3): 174-184.

Nitsche-Schmitz DP, *et al.* Group G Streptococcal IgG Binding Molecules FOG and Protein G Have Different Impacts on Opsonization by C1q. *J. Biol. Chem.* Jun 2007; 282(24): 17530-17536.

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