

DATASHEET
Version 20181206

Protein G

Cat. No.: Z02007**Size:** 5.0 mg**Synonyms:** Protein G; G Protein**Description:**

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.

Source: *E. coli*

Biological 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.

Molecular Weight: 29,000-35,000 Da was determined by SDS-PAGE while relative molecular mass calculated from amino acid sequence is ≈24,000 Da.

Purity: This product is chromatographically purified and shows predominantly a single band by SDS-PAGE. **Focusing:** pI of 4.69

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.