

## Overview

<b>Synonyms</b>	Protein G; G Protein
<b>Description</b>	<b>Protein G</b> , 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 <i>Staphylococcus aureus</i> . 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.
<b>Source</b>	<i>E. coli</i>
<b>Biological Activity</b>	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.

## Properties

<b>Measured Molecular Weight</b>	29,000-35,000 Da was determined by SDS-PAGE while relative molecular mass calculated from amino acid sequence is 24,000 Da.
<b>Purity</b>	This product is chromatographically purified and shows predominantly a single band by SDS-PAGE. Focusing: pI of 4.69
<b>Concentration</b>	5 mg/ml before lyophilization
<b>Storage</b>	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.

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