

**Recombinant Protein G  
(rProteinG)  
Catalog Number: 1002-01**

<b>Description</b>	Protein G, similar to Protein A, is an immunoglobulin-binding protein expressed in group C and G <i>Streptococcal</i> bacteria but with different specificities. It binds to the constant region of many species of immunoglobulin G and can be used to detect, quantify and purify IgG antibodies and antibody/antigen complexes. This recombinant Protein G contains only IgG binding domains. It lacks the albumin-binding, cell wall and cell membrane binding domains to ensure maximum specific IgG binding capacity.
<b>Source</b>	<i>Escherichia coli</i>
<b>Molecular Weight</b>	196 amino acids, corresponding to amino acid 190-384 residues, predicted 21.6kDa but migrates at 32kDa on SDS-PAGE
<b>Purity</b>	>95% by SDS-PAGE analyses.
<b>Specificity</b>	Greater affinity to most mammalian immunoglobulins than Protein A, including human igG3 and rat IgG2a. Does not bind to human IgM, IgD and IgA.
<b>Physical Appearance</b>	White lyophilized powder.
<b>Formulation</b>	Lyophilized with no additives.
<b>Endotoxin</b>	< 1EU/μg of growth factor as determined by LAL method.
<b>Reconstitution</b>	Reconstitute in sterile distilled water or saline.
<b>Storage</b>	Store at -20°C after receiving. Upon reconstitution, store at 2-8°C for up to one week. For maximal stability, aliquot and store at -20°C. Avoid repeated freeze/ thaw cycles.
<b>Usage</b>	This product is for research use only. It is not approved for use in humans, animals, or <i>in vitro</i> diagnostic procedures.