

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

Description	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.
Source	<i>Escherichia coli</i>
Molecular Weight	196 amino acids, corresponding to amino acid 190-384 residues, predicted 21.6kDa but migrates at 32kDa on SDS-PAGE
Purity	>95% by SDS-PAGE analyses.
Specificity	Greater affinity to most mammalian immunoglobulins than Protein A, including human igG3 and rat IgG2a. Does not bind to human IgM, IgD and IgA.
Physical Appearance	White lyophilized powder.
Formulation	Lyophilized with no additives.
Endotoxin	< 1EU/μg of growth factor as determined by LAL method.
Reconstitution	Reconstitute in sterile distilled water or saline.
Storage	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.
Usage	This product is for research use only. It is not approved for use in humans, animals, or <i>in vitro</i> diagnostic procedures.