

**Recombinant Cys-Protein G
(rCysProteinG)
Catalog Number: 1002-02**

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. Recombinant Cys-Protein G contains 196 amino acid residues, corresponds to amino acid 190-384 of the <i>Streptococcus sp</i> and a Cys residue at C-terminus.
Source	<i>Escherichia coli</i>
Molecular Weight	Predicted 22.5kDa but migrates to 32kDa on SDS-PAGE.
Purity	>95% by SDS-PAGE analyses.
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.