

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

<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. 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.
<b>Source</b>	<i>Escherichia coli</i>
<b>Molecular Weight</b>	Predicted 22.5kDa but migrates to 32kDa on SDS-PAGE.
<b>Purity</b>	>95% by SDS-PAGE analyses.
<b>Physical Appearance</b>	White lyophilized powder.
<b>Formulation</b>	Lyophilized with no additives.
<b>Endotoxin</b>	< 1EU/ $\mu$ g 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.