



Technical Data Sheet

Recombinant Protein G

Catalog Number:	P6872
Source:	<i>Escherichia coli</i>
Molecular Weight:	The recombinant Protein G, containing 196 amino acid residues which is amino acid 190-384 of the Streptococcus sp, has a predicted molecular mass of approximately 21.6 kDa. But it migrates with an apparent molecular mass of 32kDa in SDS-PAGE.
Quantity:	5mg/100mg/1.0g
Purity:	>95% by SDS-PAGE analyses.
Specificity:	<ol style="list-style-type: none">1. Binds with greater affinity to most mammalian immunoglobulins than Protein A, including human IgG3 and rat IgG2a.2. Does not bind to human IgM, IgD and IgA.
Applications:	Protein G binds to the constant region of many species of immunoglobulin G. It can be used to detect, quantify and purify IgG antibodies and antibody/antigen complexes. Bio Basic Inc's Recombinant Protein G contains only IgG binding domains. The albumin-binding domain as well as cell wall and cell membrane binding domains have been removed to ensure the maximum specific IgG binding capacity.
Physical Appearance:	Sterile Filtered White lyophilized (freeze-dried) powder.
Formulation:	Lyophilized with no additive.
Endotoxin:	Less than 0.1EU/ug of Protein G as determined by LAL method.
Reconstitution:	Dissolve in distilled water or saline.
Storage:	2 years at -20°C. After reconstitution, aliquot and store at -20°C. Avoid repeated freeze/thaw cycles.
Usage:	This material is offered by for research, laboratory or further evaluation purposes. NOT FOR HUMAN USE.