



Technical Data Sheet

Recombinant Protein G

Catalog Number:	G100/GC110
Description:	The recombinant Protein G, containing 196 amino acid residues which is amino acid 190-384 of the Streptococcus sp and a Cys residue at C terminus, has a predicated molecular mass of approximately 22.5 kDa. But it migrates with an apparent molecular mass of about 30 kDa in SDS-PAGE
Source:	<i>Escherichia coli</i>
Mol. weight	30,000 Da
Quantity:	20 mg/50 mg
Purity:	>95% by SDS-PAGE and HPLC analyses.
Formulation:	Lyophilized with no additive
Biological Activity:	<ul style="list-style-type: none">• Binds with greater affinity to most mammalian immunoglobulins than Protein A, including human IgG3 and rat IgG2a.• Does not bind to human IgM, IgD and IgA.
Applications:	Protein G binds specifically to the Fc region of IgG, Strong affinity to monoclonal mouse IgG ₁ and rat IgG. It can be used to detect, quantify and purify IgG anti-bodies & antibody/antigen complexes. MPT's recombinant protein G from which the albumin-binding domain as well as cell wall and cell membrane binding domains has been genetically deleted. Protein G when coupled to Sepharose, create extremely useful, easy to use media for many routine applications.
Reconstitution:	Dissolve in deionized/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 MicroProtein Technologies, Inc. for research, laboratory or further evaluation purposes. NOT FOR HUMAN USE.
Quality:	Quality testing is performed at all stages to ensure excellent lot-to-lot consistency. Recombinant Protein G is expressed and purified under ISO 9001:2008 Standards . The facility and quality systems are routinely audited by regulated biologic companies.