

# Recombinant Protein G

Product Code	PGN
Product Lot:	1301PGN03

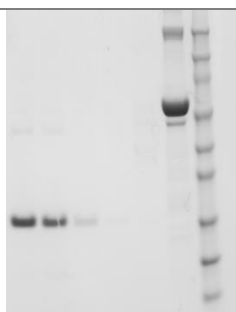
## Description

Protein G is an immunoglobulin binding protein isolated from *G. Streptococci* that primarily binds to mammalian IgGs through Fc regions. Native Protein G has 3 IgG binding domains as well as sites for albumin and cell-surface binding. Protein G has strong affinity for most mammalian IgGs, including all human IgG subclasses (IgG1, IgG2, IgG3 and IgG4) and also rabbit, mouse, and goat IgG. Protein G shows a broader range of binding to IgG subclasses than staphylococcal protein A. Domains in the NH<sub>2</sub>-terminal half of the protein have been found to bind human serum albumin (HSA). ProteinMod Recombinant Protein G has been engineered to lack the albumin binding domain to reduce non-specific binding. Additionally, there is a 6x histidine tag at the N-terminus.

## Specifications

Purity	>95%
Purification	Nickel column/histidine tag
Expression System	E. Coli.
Molecular Mass	23 kDa
Form	Liquid
Concentration	4 mg/ml (measured by absorbance at 280 nm)
Buffer	PBS
Storage	up to 4 months at 2-8 C if preservatives are added minimum 2 years stored at -20 C or colder
Preservative	0.03% sodium azide

### Application Example



Lanes 1-5: Protein G in descending concentration  
 Lane 6: 5 ug commercial BSA preparation  
 Lane 7: Novex Sharp Prestained Standard