spg
Recombinant Protein G, His Tag

Catalog No.	CRG133A	**Quantity:**	1 mg
	CRG133B		10 mg
	CRG133C		1 g

Alternate Names: Immunoglobulin G-binding protein G

Description: Protein G is a bacterial protein derived from the cell wall of certain strains of b-hemolytic Streptococci. It binds with high affinity to the Fc portion of various classes and subclasses of immunoglobulins from a variety of species. Protein G binds to all IgG subclasses from human, mouse and rat species. It also binds to total IgG from guinea pig, rabbit, goat, cow, sheep, and horse. Protein G binds preferentially to the Fc portion of IgG, but can also bind to the Fab region, making it useful for purification of F(ab') fragments of IgG. Due to it's affinity for the Fc region of many mammalian immunoglobulins, protein G is considered a universal reagent in biochemistry and immunology. Recombinant Protein G has a C-terminal His tag.

UniProt ID: P19909

Specificity: The recombinant Protein G is a genetically engineered protein containing 3 IgG-binding regions of protein G. Cell wall binding region, cell membrane binding region and albumin binding region have been removed from the recombinant Protein G to ensure the maximum specific IgG binding. The recombinant Protein G is ideal for purification of polyclonal or monoclonal IgG antibodies. Protein G binds to various human, mouse and rat IgG subclasses (e.g., human IgG1, IgG2, IgG3, IgG4; mouse IgG2a, IgG2b, IgG3; rat IgG2a, IgG2c). It also binds to total IgG from cow, goat, sheep, house and rabbit. Does not bind to human IgM, IgD and IgA.

Source: *E. coli*

Molecular Weight: Predicted MW of ~21 kDa
Apparent MW of ~29 kDa in SDS-PAGE

Formulation: Lyophilized from a sterile-filtered solution.

Purity: >90% by SDS-PAGE

Endotoxin Level: < 0.1EU/ug

Reconstitution: **Centrifuge vial prior to opening.** Dissolve in distilled water or saline.

Storage & Stability: Store as supplied at -20°C to -80°C for up to 1 year. Upon reconstitution as directed, stable for up to 1 month at 2-8°C or prepare working aliquots and store at -20°C to -80°C for up to 3 months. **Avoid repeated freeze-thaw cycles.**

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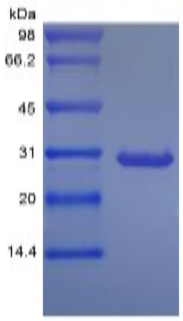
SDS-PAGE



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