

## Cys-Protein-G His

**Description:** Cys-Protein G His Tag Recombinant produced in E.Coli is a 202 amino acids protein which contains amino acid 190-384 of the Streptococcus sp with a 6-His tag Cysteine residue at the C-terminus, has a predicted molecular mass of approximately 22.5 kDa. But it migrates with an apparent molecular mass of 32kDa in SDS-PAGE. The Protein G His Tag is purified by proprietary chromatographic techniques.

**Catalog #:** PRPS-1245

For research use only.

**Source:** Escherichia Coli.

**Physical Appearance:** Sterile Filtered White lyophilized (freeze-dried) powder.

**Purity:** Greater than 95.0% as determined by SDS-PAGE and HPLC analyses.

**Specificity:**

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.

**Formulation:**

Lyophilized with no additive.

**Stability:**

Lyophilized Protein G although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution Protein G should be stored at 4°C between 2-7 days and for future use below -18°C. Please prevent freeze-thaw cycles.

**Usage:**

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

**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. 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.

**Solubility:**

It is recommended to reconstitute the lyophilized Protein G in sterile 18M-cm H<sub>2</sub>O not less than 100

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