

Product datasheet

Recombinant Protein G ab49807

1 References

Overview

Product name	Recombinant Protein G
Protein length	Protein fragment

Description

Nature	Recombinant
Source	Escherichia coli

Amino Acid Sequence

Molecular weight	26 kDa including tags
Amino acids	190 to 384
Tags	His tag N-Terminus

Specifications

Our [Abpromise guarantee](#) covers the use of **ab49807** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	Affinity purification
Purity	> 95 % SDS-PAGE. >98% by SDS-PAGE and HPLC analyses. 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.
Form	Lyophilised
Additional notes	Protein G can be used to detect, quantify and purify IgG antibodies and antibody/antigen complexes. The 6-His-tag on N-terminus can be used for affinity purification or protein G detection using anti-His-tag antibodies. This protein contains only IgG binding domains.

Preparation and Storage

Stability and Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
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Preservative: None
Endotoxin level is <0.1 EU/mg of Protein G.

General Info

Relevance

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 its affinity for the Fc region of many mammalian immunoglobulins, protein G is considered a universal reagent in biochemistry and immunology.

Cellular localization

Cell Wall and Secreted

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