

Protein A, 434 a.a

Description: Recombinant Staphylococcal Protein A produced in E.Coli is a non-glycosylated, Polypeptide chain containing 434 amino acids (37-469 a.a.) and having a molecular mass of 48.1 kDa. Recombinant Staphylococcal Protein A is purified by proprietary chromatographic techniques.

Catalog #: PRPS-693

For research use only.

Synonyms: Immunoglobulin G-binding protein A, IgG-binding protein A, Staphylococcal protein A, SPA.

Source: Escherichia Coli.

Physical Appearance: Sterile filtered colorless solution.

Amino Acid Sequence: MAQHDEAQQN AFYQVLNMPN LNADQRNGFI QSLKDDPSQS
ANVLGEAQKL NDSQAPKADA QQNFNKDQQ SAFYEILNMP NLNEAQRNGFIQSLKDDPSQ
STNVLGEAKK LNESQAPKAD NNFNKEQQNA FYEILNMPNL NEEQRNGFIQ SLKDDPSQSA
NLLSEAKKLN ESQAPKADNKFNKEQQNAFY EILHLPNLNE EQRNGFIQSL KDDPSQSANL
LAEAKKLND A QAPK

Purity: Greater than 90.0% as determined by SDS-PAGE.

Formulation:

The Protein-A protein solution contains 20mM Tris-HCl, pH-8 and 10% glycerol.

Stability:

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple 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.

Introduction:

Protein A is a cell wall protein deriving from Staphylococcus aureus which exhibits unique binding properties for IgG from a variety of mammalian species and for some IgM and IgA as well. It binds with the Fc region of immunoglobulins through interaction with the heavy chain. It couples to a wide variety of reporter molecules including fluorescent dyes, enzyme markers, biotin, colloidal gold and radioactive iodine without affecting the antibody binding site. Recombinant Protein A was developed to increase the specificity of the molecule for IgG and is widely used both in research and bioprocessing. The recombinant protein A is produced by expressing a modified protein A gene in E.coli. A specific purification process with strict quality control was taken to get the recombinant protein A with the purity of more than 98% , no human IgG affinity step is used during validated fermentation and purification and devoid of bacterial contaminant found normally in native Protein A. (Free of Staphylococcus endotoxins and hemolysin).

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