9051 Mira Mesa Blvd, #910094
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Protein A, 434 a.a

Staphylococcal Protein A 434 a.a Recombinant
RCP1712

Product Overview

Name	Protein A, 434 a.a
Description	
Staphylococcal Protein A 434 a.a Recombinant	
Accession (Primary)	P38507
Synonyms	
Immunoglobulin G-binding protein A, IgG-binding protein A, Staphylococcal protein A, SPA.	
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).	
Source	
Escherichia Coli.	
Physical Appearance	
Sterile filtered colorless solution.	
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.	
Purity	
Greater than 90.0% as determined by SDS-PAGE.	
Amino acid sequence	

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MAQHDEAQQN AFYQVLNMPN LNADQRNGFI QSLKDDPSQS ANVLGEAQKL NDSQAPKADA QQNNFNKDQQ SAFYEILNMP NLNEAQRNGFIQSLKDDPSQ STNVLGEAKK LNESQAPKAD NNFNKEQQNA FYEILNMPNL NEEQRNGFIQ SLKDDPSQSA NLLSEAKKLN ESQAPKADNK FNKEQQNAFY EILHLPNLNE EQRNGFIQSL KDDPSQSANL LAEAKKLNDA QAPKADNKFN KEQQNAFYEI LHLPNLTEEQ RNGFIQSLKDDPSVSKEILA EAKKLNDAQA PKEEDNNKPG KEDNNKPGKE DNNKPGKEDG NKPGKEDNKK PGKEDNKKPG KEDNKKPGKE DGNKPGKEDN KKPGKEDGNG VHVVKPGDTV NDIAKANGTT ADKIAADNKL ADKNMIKPGQ ELVVDKKQPA NHADANKAQA LPET.

Precautions

Protein A, 434 a.a is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (P38507)