

Recombinant S.aureus Immunoglobulin G Binding Protein A

Cat. No. spa-515S Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Staphylococcus aureus Protein A was expressed in <i>E.coli</i> and purified by using conventional chromatography. MW =48.1 kDa (434aa).
Source	E.coli
Description	Protein A is a 40-60kDa surface protein originally found in the cell wall of the bacteria <i>Staphylococcus aureus</i> . It binds with high affinity to human IgG1 and IgG2 as well as mouse IgG2a and IgG2b. Protein A binds with moderate affinity to human IgM, IgA and IgE as well as to mouse IgG3 and IgG1. Due to its affinity for the Fc region of many mammalian immunoglobulins, protein A is considered a universal reagent in biochemistry and immunology.
Amino Acid Sequence	MAQHDEAQQN AFYQVLNMPN LNADQRNGFI QSLKDDPSQS ANVLGEAQKL NDSQAPKADA QQNNFNKDQQ SAFYEILNMP NLNEAQRNGF IQSLKDDPSQ STNVLGEAKK LNESQAPKAD NNFNKEQQNA FYEILNMPNL NEEQRNGFIQ SLKDDPSQSA NLLSEAKKLN ESQAPKADNK FNKEQQNAFY EILHLPNLNE EQRNGFIQSL KDDPSQSANL LAEAKKLND A QAPKADNKFN KEQQNAFYEI LHLPNLTEEQ RNGFIQSLKD DPSVSKEILA EAKKLND AQA PKEEDNNKPG KEDNNKPGKE DNNKPGKEDG NKP GKEDNKK PGKEDNKKPG KEDNKKPGKE DGNKPGKEDN KKP GKEDGNG VHVVKPGDTV NDI AKANGTT ADKIAADNKL ADKNMIKPGQ ELVVDKKQPA NHADANKAQA LPET.
Form	Liquid. In 20 mM Tris-HCl buffer (pH 8.0) containing 10% glycerol.

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Purity	> 90% by SDS – PAGE.
Concentration	1 mg/ml (determined by BCA assay).
Endotoxin Level	< 1.0 EU per 1 µg of protein (determined by LAL method).
Storage	Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.
GENE INFORMATION	
Gene Name	spa immunoglobulin G binding protein A [Staphylococcus aureus subsp. aureus USA300_TCH1516]
Synonyms	spa; immunoglobulin G binding protein A
Gene ID	5775424
mRNA Refseq	YP_001574038

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