

Recombinant s.aureus Protein A protein

Catalog Number: ATGP0304

PRODUCT INFORMATION

Expression system

E.coli

Domain

37-469aa

UniProt No.

B3GGB2

NCBI Accession No.

ACD80064

Alternative Names

Immunoglobulin G binding protein A, Immunoglobulin G binding protein A, Immunoglobulin G binding protein A Staphylococcal protein A, SPA,

PRODUCT SPECIFICATION

Molecular Weight

48.1 kDa (434aa) confirmed by MALDI-TOF

Concentration

1mg/ml (determined by BCA assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol,

Purity

> 90% by SDS-PAGE

Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

Tag

Non-Tagged

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

Protein A is a 40-60 kDa surface protein originally found in the cell wall of the bacteria Staphylococcus aureus. 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

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region of many mammalian immunoglobulins, protein A is considered a universal reagent in biochemistry and immunology. Recombinant *Staphylococcus aureus* Protein A was expressed in *E. coli* and purified by using conventional chromatography.

Amino acid Sequence

MAQHDEAAQQN AFYQVLNMPN LNADQRNGFI QSLKDDPSQS ANVLGEAQKL NDSQAPKADA QQNNFNKDQQ
SAFYEILNMP NLNEAQRNGF IQSLKDDPSQ STNVLGEAKK LNESQAPKAD NNFNKEQQNA FYEILNMPNL NEEQRNGFIQ
SLKDDPSQSA NLLSEAKKLN ESQAPKADNK FNKEQQNAFY EILHLPNLNE EQRNGFIQSL KDDPSQSANL LAEAKKLDA
QAPKADNKFN KEQQNAFYEI LHLPLNLTTEE RNFQIQSLKD DPSVSKEILA EAKKLNDAA PKEEDNNKPG KEDNNKPGKE
DNNKPGKEDG NKPGKEDNKK PGKEDNKKPG KEDNKKPGKE DGNKPGKEDN KPGKEDGNG VHVVKPGDTV
NDIAKANGTT ADKIAADNKL ADKNMIKPGQ ELVVDKKQPA NHADANKAQA LPET

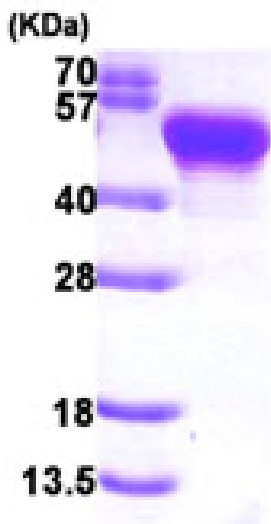
General References

Guirnalda P., et al. (2007) *Int J Parasitol.* 37(12):1391-9.

Volpers C., et al. (2003) *J Virol.* 77(3):2093-104.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3ug)