

32-4933: Recombinant Staphylococcal Protein-A 33.4kDa

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

Description

Source : Escherichia Coli. SPA Recombinant produced in E.Coli is a homodimeric non-glycosylated polypeptide chains comprised of 5 IgG-binding domains E-D-A-B-C aligned in series containing 296 amino acids and having a molecular mass of 33.4kDa containing little or no carbohydrate. Cell wall binding region, cell membrane binding region and albumin binding region were removed to ensure the highest specific IgG binding. Protein A is a cell wall component produced by several strains of Staphylococcus aureus. The recombinant Protein A is genetically engineered protein and holds 5 IgG-binding regions of protein A. Recombinant Protein A functions basically the same as native Protein A and is perfect for purification of polyclonal or monoclonal IgG antibodies. Protein A binds to human IgG1, IgG2 and IgG4, mouse IgG2a, IgG2b and IgG3 and rat IgG2c. Protein A also binds to total IgG from rabbit, pig, dog, cat, and guinea pig.

Product Info

Amount : 100 mg

Purification : "Greater than 97.0% as determined by: (a) Analysis by HPLC.(b) Analysis by SDS-PAGE."

Content : SPA protein was lyophilized with no additives.

Storage condition : Lyophilized SPA although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution SPA should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

Amino Acid : NAAQHDEAAQ NAFYQVLNMP NLNADQRNGF IQSLKDDPSQ SANVLGAEQK LNSQAPKAD
AQQNNFNKDQ QSAFYEILNM PNLNEAQRNG FIQSLKDDPS QSTNVLGAEK KLNESQAPKA
DNNFNKEQQN AFYEILNMPN LNEEQRNGFI QSLKDDPSQS ANLLSEAKKL NESQAPKADN KFNKEQQNAF
YEILHLPNLN EEQRNGFIQS LKDDPSQSAN LLAEAKKLND AQAPKADNKF NKEQQNAFYE ILHLPNLTEE
QRNGFIQSLK DDPSVSKEIL AEAKKLND AQ APKEED.

Application Note

It is recommended to reconstitute the lyophilized SPA in sterile 18MΩ-cm H₂O not less than 0.1mg/ml, which can then be further diluted to other aqueous solutions.

