

32-4934: Recombinant Staphylococcal Protein-A Cys

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

Description

Source : Escherichia Coli. SPA-Cys Recombinant produced in E.Coli is a single non-glycosylated polypeptide chain with a Cys on C-terminus. SPA-Cys is comprised of 5 IgG-binding domains E-D-A-B-C aligned in series containing 297 amino acids and having a molecular mass of 33.5kDa 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 98.0% 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 :

NAAQHDEAQQ NAFYQVLNMP NLNADQRNGF IQSLKDDPSQ SANVLGEAQK LNSQAPKAD
AQQNFNKDQ QSAFYEILNM PNLNEAQRNG FIQSLKDDPS QSTNVLGEAK KLNESQAPKA
DNNFNKEQQN AFYEILNMPN LNEEQRNGFI QSLKDDPSQS ANLLSEAKKL NESQAPKADN
KFNKEQQNAF YEILHLPNLN EEQRNGFIQS LKDDPSQSAN LLAEAKKLND AQAPKADNKF
NKEQQNAFYE ILHLPNLTEE QRNGFIQSLK DDPSVSKEIL AEAKKLNDQA APKEEDC

Application Note

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

