

32-4938: Recombinant Staphylococcal Protein-A Long Form

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

Description

Source : Escherichia Coli. SPA Recombinant Long Form produced in E.Coli is a single non-glycosylated polypeptide chain. SPA Long Form is comprised of 5 IgG-binding domains E-D-A-B-C aligned in series containing 422 amino acids (including a.a 273-400 from acc# P99134) and having a molecular mass of 46.6kDa containing little or no carbohydrate. 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 :

AQHDEAQQNA FYQVLNMPNL NADQRNGFIQ SLKDDPSQSA NVLGEAQKLN DSQAPKADAQ
QNNFNKDQQS AFYEILNMPN LNEAQRNGFI QSLKDDPSQS TNVLGEAKKL NESQAPKADN
NFNKEQQNAF YEILNMPNLN EEQRNGFIQS LKDDPSQSAN LLSEAKKLE SQAPKADNKF NKEQQNAFYE
ILHLPNLNEE QRNGFIQSLK DDPSQSANLL AEAKKLNDQA APKADNKFNK EQQNAFYEIL HLPNLTEEQR
NGFIQSLKDD PSVSKEILAE AKKLNDQAAP KEEDNKKPGK EDGNKPGKED GNKPGKEDNK KPGKEDGNKP
GKEDNNKPGK EDGNKPGKED NNKPGKEDGN KPGKEDGNKP GKEDGNGVHV VKPGDVTNDI
AKANGTTADK IAADNKLADK NMIKPGQELV VD.

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.

