
Product Data Sheet

Product Name: SPA, His
 Cat. No.: GP24675
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	Immunoglobulin G-binding protein A; IgG-binding protein A; Staphylococcal protein A; SPA.		
Amino Acid Sequence	<p>MNAAQHDEAQ QNAFYQVLNM PNLNADQRNG FIQSLKDDPS QSANVLGAEQ KLNDSQAPKA DAQQNNFNKD QQSIFYEILN MPNLNEAQRN GFIQSLKDDP SQSTNVLGEA KKLNESQAPK ADNNFNKEQQ NAFYEILNMP NLNEEQRNGF IQSLKDDPSQ SANLLSEAKK LNESQAPKAD NKFNKEQQNA FYEILHLPNL NEEQRNGFIQ SLKDDPSQSA NLLAEAKKLN DAQAPKADNK FNKEQQNAFY EILHLPNLTE EQRNGFIQSL KDDPSVSKEI LAEAKKLNDA QAPKEEDSLE HHHHHH.</p>		
Solubility	It is recommended to reconstitute the lyophilized SPA in sterile 18MΩ-cm H ₂ O not less than 0.1mg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	SPA protein was lyophilized with no additives.		

Introduction

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.

Stability

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

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

Product Data Sheet

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).

Background

SPA Recombinant produced in E.Coli is a single non-glycosylated polypeptide chain fused with 6×His tag at C-terminus. SPA is comprised of 5 IgG-binding domains E-D-A-B-C aligned in series containing 306 amino acids and having a molecular mass of 34.7kDa 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.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA