
Product Data Sheet

Product Name: SPA-Cys His

Cat. No.: GP24673

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	MNAAQHDEAQ QNAFYQVLNM PNLNADQRNG FIQSLKDDPS QSANVLGEAQ KLNDSQAPKA DAQQNNFNKD QQSAYEILN MPNLNEAQRN GFIQSLKDDP SQSTNVLGEA KKLNESQAPK ADNNFNKEQQ NAFYEILNMP NLNEEQRNGF IQSLKDDPSQ SANLLSEAKK LNESQAPKAD NKFNKEQQNA FYEILHLPNL NEEQRNGFIQ SLKDDPSQSA NLLAEAKKLN DAQAPKADNK FNKEQQNAFY EILHLPNLTE EQRNGFIQSL KDDPSVSKEI LAEAKKLNDA QAPKEEDSLE HHHHHC		
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.

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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-Cys His Recombinant produced in E.Coli is a single non-glycosylated polypeptide chain with 6×His-tag and a Cys on C-terminus. SPA-Cys His is comprised of 5 IgG-binding domains E-D-A-B-C aligned in series containing 307 amino acids and having a molecular mass of 34.8kDa 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.

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