
Product Data Sheet

Product Name: Protein A/G
 Cat. No.: GP24237
 Batch No.: 1

Product Data

Purity	>97% as determined by SDS-PAGE and RP-HPLC.	Source	Escherichia coli.
Physical Appearance		Shipping Condition	Shipped at Room temp.
Amino Acid Sequence	<p>NAAQHDEAAQQ NAFYQVLNMP NLNADQRNGF IQSLKDDPSQ SANVLGEAQK LNSQAPKAD AQQNNFNKDQ QSAFYEILNM PNLNEAQRNG FIQSLKDDPS QSTNVLGEAK KLNESQAPKA DNNFNKEQQN AFYEILNMPN LNEEQRNGFI QSLKDDPSQS ANLLSEAKKL NESQAPKADN KFNKEQQNAF YEILHLPNLN EEQRNGFIQS LKDDPSQSAN LLAEAKKLND AQAPKADNKF NKEQQNAFYE ILHLPNLTEE QRNGFIQSLK DDPSVSKEIL AEAKKLNDAAQ APKEEDSLEG SGGTYKLIL NGKTLKGETT TEAVDAATAE KVFKQYANDN GVDGEWYDD ATKFTVTEK PEVIDASELT PAVTTYKLVI NGKTLKGETT TKAVIDAETA KAFKQYANDN GVDGVWYDD ATKFTVTE.</p>		
Solubility	<p>It is recommended to reconstitute the lyophilized Protein-A/G in sterile 18M-cm H₂O not less than 0.1mg/ml, which can then be further diluted to other aqueous solutions.</p>		
Formulation	Lyophilized white Powder containing no additives.		

Introduction

Recombinant Protein A/G fusion protein joins IgG binding domains of both Protein A and Protein G. Protein A/G includes four Fc binding domains from Protein A and two from Protein G, yielding a final mass of 50.4 kDa. The binding dependency to pH of Protein A/G lower than Protein A, but has the additive properties of Protein A and G together. Protein A/G binds to all subclasses of human IgG, making it helpful for purifying polyclonal or monoclonal IgG antibodies whose subclasses have not been identified. Protein A/G binds to IgA, IgE, IgM and IgD. Protein A/G binds to all subclasses of mouse IgG excluding mouse IgA, IgM or serum albumin. This permits Protein A/G to be used in purification and detection of mouse monoclonal IgG antibodies, with no interference

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

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from IgA, IgM and serum albumin. Mouse monoclonal antibodies normally have a stronger affinity to the chimeric Protein A/G than to either Protein A or Protein G. Protein A/G also has been used for purification of macaque IgG.

Stability

After reconstitution, aliquot and store at -20°C .Avoid repeated freeze/thaw cycles.

Background

The recombinant Protein A/G consists of 7 IgG-binding domains EDABC-C1C3, which corresponds to the Protein A and G domains that are included in the recombinant sequence. Cell wall binding region, cell membrane binding region and albumin binding region have been removed from the recombinant Protein A/G to ensure the maximum specific IgG binding. The Protein A portion is from Staphylococcus aureus segments E, D, A, B and C. The Protein G portion is from Streptococcus segments C1 and C3. The fusion protein has a predicted molecular mass of 47.7kDa and containing 429 amino acids.

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