
Product Data Sheet

Product Name: Protein-A/G Cys

Cat. No.: GP24239

Batch No.: 1

Product Data

Purity >98%

Source Escherichia Coli.

Physical
Appearance solidShipping
Condition Shipped at Room temp.Amino Acid
Sequence

NAAQHDEAAQQ NAFYQVLNMP NLNADQRNGF IQSLKDDPSQ SANVLGEAQK
 LNDSPAPKAD AQQNNFNKDQ QSAFYEILNM PNLNEAQRNG FIQSLKDDPS
 QSTNVLGEAK KLNESQAPKA DNNFNKEQQN AFYEILNMPN LNEEQRNGFI
 QSLKDDPSQS ANLLSEAKKL NESQAPKADN KFNKEQQNAF YEILHLPNLN
 EEQRNGFIQS LKDDPSQSAN LLAEAKKLND AQAPKADNKF NKEQQNAFYE
 ILHLPNLTEE QRNGFIQSLK DDPSVSKEIL AEAKKLNDAQ APKEEDSLEG
 SSGSPTYKLIL NGKTLKGETT TEAVDAATAE KVFKQYANDN GVDGEWYD
 ATKFTVTEK PEVIDASELT PAVTTYKLV I NGKTLKGETT TKAVIDAETA
 KAFKQYANDN GVDGVWYD ATKFTVTEC.

Solubility

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.

Formulation

Protein-A/G was lyophilized without any additives.

Introduction

The recombinant Protein A/G is a genetically engineered protein comprised of 7 IgG-binding domains EDABC-C1C3, corresponding to the Protein A and G domains which are included in the recombinant sequence. The Protein A part is from Staphylococcus aureus segments E, D, A, B and C. The Protein G part is from Streptococcus segments C1 and C3. The recombinant Protein A/G has a broader binding capacity than either Protein A or Protein G alone. The recombinant Protein A/G is ideal for purification of monoclonal or polyclonal IgG antibodies. Protein A/G binds to various human, mouse and rat IgG subclasses such as the human IgG1, IgG2, IgG3, IgG4; mouse IgG2a, IgG2b, IgG3 and rat IgG2a, IgG2c. In addition, Protein A/G binds to total IgG from cow, goat, sheep, horse, rabbit, guinea pig, pig, dog and cat.

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

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Stability

Lyophilized Protein-A/G although stable at room temperature for 3 weeks, should be stored desiccated below -18°C . Upon reconstitution Protein-A/G 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).

Background

Protein-A/G Recombinant produced in E.Coli is a single non-glycosylated polypeptide chain fused with a Cys at C-terminus. Protein-A/G is comprised of 5 IgG-binding regions of protein A (E-D-A-B-C) and 2 of protein G (C1-C3) containing 430 amino acids in total and having a molecular mass of 47.8kDa. Cell wall binding region, cell membrane binding region and albumin binding region have been eliminated from the recombinant Protein A/G to guarantee the maximum specific IgG binding.

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