
Product Data Sheet

Product Name: Protein-A/G, His

Cat. No.: GP24238

Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.

Amino Acid Sequence

MNAAQHDEAQ QNAFYQVLNM PNLNADQRNG FIQSLKDDPS QSANVLGEAQ
 KLNDSQAPKA DAQQNNFNKD QQSAFYEILN MPNLNEAQRN GFIQSLKDDP
 SQSTNVLGEA KKLNESQAPK ADNNFNKEQQ NAFYEILNMP NLNEEQRNGF
 IQSLKDDPSQ SANLLSEAKK LNESQAPKAD NKFNKEQQNA FYEILHLPNL
 NEEQRNGFIQ SLKDDPSQSA NLLAEAKKLN DAQAPKADNK FNKEQQNAFY
 EILHLPNLTE EQRNGFIQSL KDDPSVSKEI LAEAKKLND A QAPKEEDSLE
 GSGSGTYKLI LNGKTLKGET TTEAVDAATA EKVFKQYAND NGVDGEWTYD
 DATKTFTVTE KPEVIDASEL TPAVTTYKLV INGKTLKGET TTEAVDAATA
 EKVFKQYAND NGVDGEWTYD DATKTFTVTE KPEVIDASEL TPAVTTYKLV
 INGKTLKGET TTKAVDAETA EKAFKQYAND NGVDGVWTYD DATKTFTVTE
 KLAAALEHHH HHH.

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 8 IgG-binding domains EDABC-C1C2C3, 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, C2 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

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

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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.

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 6×His tag at C-terminus. Protein-A/G is comprised of 5 IgG-binding regions of protein A (E-D-A-B-C) and 3 of protein G (C1-C2-C3) containing 513 amino acids in total and having a molecular mass of 56.9kDa. 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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