
Product Data Sheet

Product Name: Protein-A/G/L

Cat. No.: GP24249

Batch No.: 1

Product Data

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

Amino Acid Sequence

NAAQHDEAAQQ NAFYQVLNMP NLNADQRNGF IQSLKDDPSQ SANVLGEAQK
 LNDSQAPKAD 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
 ATKTFTVTEK PEVIDASELT PAVTTYKLV I NGKTLKGETT TKAVIDAETA
 KAFKQYANDN GVDGVWYD ATKTFTVTEE PRARPGSGSG KEETPETPET
 DSEEEVTIKA NLIFANGSTQ TAEFKGTFEK ATSEAYAYAD TLKKDNGEY
 VDVAADKGYTL NIKFAGKEKT PEEPKEEVTI KANLIYADGK TQTAEFKGTF
 EEATAEAYRY ADALKKDNGE YTVDVADKGY TLNIKFAGKE KPEEPKEEV
 TIKANLIYAD GKTQTAEFKG TFEATAEAY RYADLLAKEN GKYTVDVADK
 GYTLNIKFAG KEKPEEPKE EVTIKANLIY ADGKTQTAEF KGTFEATAE
 AYRYADLLAK ENGKYTADLE DGGYTINIRF AGKKVDEKPE EKEQVTIKEN
 IYFEDGTVQT ATFKGTFAEA TAEAYRYADL LSKEHGKYTA DLEDGGYTIN
 IRFAG.

Solubility

It is recommended to reconstitute the lyophilized Protein-A/G/L 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/L was lyophilized without any additives.

Introduction

The recombinant Protein A/G/L is a genetically engineered protein which combines the IgG binding profiles of all Protein A, Protein G and Protein L. Protein A/G/L is a gene

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

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

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fusion product. Recombinant fusion protein A/G/L is comprised of 5 Ig-binding regions of protein L (B1-B2-B3-B4-B5), 5 IgG binding domains from Protein A (E-D-A-B-C) and 2 Ig-binding region of protein G (C1-C3). The recombinant Protein A/G/L is ideal for purification of monoclonal or polyclonal IgG antibodies. Protein A/G/L binds to IgG from humans, mice, rats, cows, goats, sheep, rabbits, guinea pigs, pigs, dogs and cats.

Stability

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

Recombinant Protein-A/G/L produced in E.Coli is a single non-glycosylated polypeptide chain. Protein- A/G/L is comprised of 5 IgG-binding regions of Protein A (E-D-A-B-C), 2 of protein G (C1-C3) and 5 of Protein L (B1-B2-B3-B4-B5) containing 805 amino acids in total and having a molecular mass of 89.2kDa. Cell wall binding region, cell membrane binding region and albumin binding region have been eliminated from the recombinant Protein- A/G/L to guarantee the maximum specific IgG binding.

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