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**Product Data Sheet**


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Product Name: Cys-Protein-A/G/L

Cat. No.: GP24251

Batch No.: 1

**Product Data**

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

Amino Acid Sequence

CNAAQHDEAQ 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 TTKAVDAETA  
 EKAFKQYAND NGVDGVWTYD DATKTFTVTE EPRARPGSGS GKEETPETPE  
 TDSEEEVTIK ANLIFANGST QTAEFKGTFE KATSEAYAYA DTLKKDNGEY  
 TVDVADKGYT LNIKFAGKEK TPEEPKEEVT IKANLIYADG KTQTAEFKGT  
 FEEATAEAYR YADALKKDNG EYTVDVADKG YTLNIKFAGK EKTPEEPKEE  
 VTIKANLIYA DGKTQTAEFK GTFEEATAEA YRYADLLAKE NGKYTVDVAD  
 KGYTLNIKFA GKEKTPEEPK EEVTIKANLI YADGKTQTAE FKGTFEATA  
 EAYRYADLLA KENGKYTADL EDGGYTINIR FAGKKVDEKP EEKEQVTIKE  
 NIYFEDGTVQ TATFKGTFAE ATAEAYRYAD LLSKEHGKYT ADLEDGGYTI  
 NIRFAG.

Solubility

It is recommended to reconstitute the lyophilized Protein-A/G/L in sterile 18M-cm H<sub>2</sub>O 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

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

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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  $-18^{\circ}\text{C}$ . Upon reconstitution Protein-A/G/L should be stored at  $4^{\circ}\text{C}$  between 2-7 days and for future use below  $-18^{\circ}\text{C}$ . 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 fused with a Cys at N-terminus. 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 806 amino acids in total and having a molecular mass of 89.3kDa. 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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