

## 32-4509: Recombinant Protein Cys-A/G

### Description

Source : Escherichia Coli. Protein-A/G Recombinant produced in E.Coli is a single non-glycosylated polypeptide chain fused with a Cys at N-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. 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.

### Product Info

<b>Amount :</b>	10 mg
<b>Purification :</b>	Greater than 96.0% as determined by: (a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE.
<b>Content :</b>	Protein-A/G was lyophilized without any additives.
<b>Storage condition :</b>	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). Please prevent freeze-thaw cycles.
<b>Amino Acid :</b>	CNAAQHDEAQ QNAFYQVLNM PNLNADQRNG FIQSLKDDPS QSANVLGAEQ KLNDSQAPKA DAQQNNFNKD QQSAFYEILN MPNLNEAQRN GFIQSLKDDP SQSTNVLGEA KKLNESQAPK ADNNFNKEQQ NAFYEILNMP NLNEEQRNGF IQSLKDDPSQ SANLLSEAKK LNESQAPKAD NKFNKEQQNA FYEILHLPNL NEEQRNGFIQ SLKDDPSQSA NLLAEAKKLN DAQAPKADNK FNKEQQNAFY EILHLPNLTE EQRNGFIQSL KDDPSVSKEI LAEAKKLNDA QAPKEEDSLE GSGSGTYKLI LNGKTLKGET TTEAVDAATA EKVFKQYAND NGVDGEWTYD DATKTFTVTE KPEVIDASEL TPAVTTYKLV INGKTLKGET TTKAVDAETA EKAFKQYAND NGVDGVWTYD DATKTFTVTE.

### Application Note

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.

