

## 32-4507: Recombinant Protein A/G His Tag

### Description

Source : Escherichia Coli. 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. 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 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>	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 NGVDGEWTDYD DATKTFTVTE KPEVIDASEL TPAVTYKLV INGKTLKGET TTEAVDAATA EKVFKQYAND NGVDGEWTDYD DATKTFTVTE KPEVIDASEL TPAVTYKLV INGKTLKGET TTKAVDAETA EKAQKQYAND NGVDGVWTDYD DATKTFTVTE KLAALAEHHH HHH.

### Application Note

It is recommended to reconstitute the lyophilized Protein-A/G 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.

