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Protein-A/G Cys

Protein A/G Cys Recombinant
RCP1716

Product Overview

Name	Protein-A/G Cys

Description

Protein A/G Cys Recombinant

Introduction

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.

Source

Escherichia Coli.

Physical Appearance

Sterile Filtered White lyophilized (freeze-dried) powder.

Formulation

Protein-A/G was lyophilized without any additives.

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). Please prevent freeze-thaw cycles.

Purity

Greater than 96.0% as determined by: (a) Analysis by HPLC. (b) Analysis by SDS-PAGE.

Amino acid sequence

NAAQHDEAQQ 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 SGSGTYKLIL NGKTLKGETT TEAVDAATAE KVFKQYANDN GVDGEWTYDD ATKTFTVTEK PEVIDASELT PAVTTYKLVI NGKTLKGETT TKAVDAETAE KAFKQYANDN GVDGVWTYDD ATKTFTVTE C .

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.

Precautions

Protein-A/G Cys is for research use only and not for use in diagnostic or therapeutic procedures.