
Product Data Sheet

Product Name: Protein-L Cys

Cat. No.: GP24246

Batch No.: 1

Product Data

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

Amino Acid Sequence
 KEETPETPET DSEEEVTIKA NLIFANGSTQ TAEFKGTFEK ATSEAYAYAD
 TLKKDNGEYT VDVADKGYTL NIKFAGKEKT PEEPKEEVTI KANLIYADGK
 TQTAEFKGTFF EEATAEAYRY ADALKKDNGE YTVDVADKGY TLNIKFAGKE
 KTPEEPKEEV TIKANLIYAD GKTQTAEFKG TFEEATAEAY RYADLLAKEN
 GKYTVDVADK GYTLNIKFAG KEKTPEEPKE EVTIKANLIY ADGKTQTAEF
 KGTFAEATAE AYRYADLLAK ENGKYTADLE DGGYTINIRF AGKKVDEKPE
 EKEQVTIKEN IYFEDGTVQT ATFKGTFAEA TAEAYRYADL LSKEHGKYTA
 DLEDGGYTIN IRFAGC.

Solubility
 It is recommended to reconstitute the lyophilized Protein-L in sterile 18M-cm H₂O not less than 0.1mg/ml, which can then be further diluted to other aqueous solutions.

Formulation
 Protein-L was lyophilized without any additives.

Introduction

The Recombinant Protein L is comprised of 5 kappa-binding domains. Protein L has the exceptional ability to bind through kappa light chain interactions without hindering with the antibody's antigen-binding site. This gives Protein L the capacity to bind a broader range of Ig classes and subclasses than other antibody-binding proteins. The recombinant Protein L is perfect for purification of polyclonal or monoclonal IgG antibodies. Protein L binds to IgG from humans, mice, rats and pigs.

Stability

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

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

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add a carrier protein (0.1% HSA or BSA).

Background

Recombinant Protein-L produced in E.Coli is a single non-glycosylated polypeptide chain fused with a Cys at C-terminus. Protein-L is comprised of 5 IgG-binding regions of protein L (B1-B2-B3-B4-B5) containing 366 amino acids in total and having a molecular mass of 40.6kDa, however, it migrates with an apparent molecular mass of 46kDa on SDS-PAGE. Cell wall binding region, cell membrane binding region and albumin binding region have been eliminated from the recombinant Protein-L to guarantee the maximum specific IgG binding.

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