

Protein L

#R00026

Size: 1 mg/25 mg/100 mg

Stability & Storage

- Use a manual defrost freezer and avoid repeated freeze-thaw cycles.
- 12 months from date of receipt, -20 to -70 °C as supplied.
 - 1 month, 2 to 8 °C under sterile conditions after reconstitution.
 - 3 months, -20 to -70 °C under sterile conditions after reconstitution.



Warning: This product is intended for scientific research only. It is not to be used for medical or diagnostic procedures in humans or animals, nor as a food, cosmetic, or household product.

Background

Recombinant Protein L contains 5 kappa-binding domain. Protein L has the unique ability to bind through kappa light chain interactions without interfering with the antibody's antigen-binding site. This gives Protein L the ability to bind a wider range of Ig classes and subclasses than other antibody-binding proteins.

AA Sequence

KEETPETPETDSEEEVTIKANLIFANGSTQTAEFKGT
EKATSEAYAYADTLKKDNGEYTVDVADKGYTLNIKFA
GKEKTPEEPKEEVTIKANLIYADGKTQTAEFKGTFE
EATAEAYRYADALKKDNGEYTVDVADKGYTLNIKFA
GKEKTPEEPKEEVTIKANLIYADGKTQTAEFKGTFE
EATAEAYRYADLLAKENGKYTVDVADKGYTLNIKFA
GKEKTPEEPKEEVTIKANLIYADGKTQTAEFKGTFA
EATAEAYRYADLLAKENGKYTADLEDGGYTINIRFA
GKKVDEKPEEKEQVTIKENIYFEDGTVQTATFKGTFA
EATAEAYRYADLLSKEHGKYTADLEDGGYTINIRFAG

Reconstitution

Dissolve in distilled water or saline.

Product Specification

Accession	D6S9W1
Source	Escherichia coli.
Molecular Weight	Approximately 40.5 kDa, a single non-glycosylated polypeptide chain containing 365 amino acids. But it migrates with an apparent molecular mass of 45 kDa in SDS-PAGE.
Protein per Gram Powder	See Label.
Concentration for 1 unity OD at 280 nm	1.133 mg/ml
Purity	> 97 % by SDS-PAGE and SEC-HPLC analyses.
Specificity	The recombinant Protein L is a genetically engineered protein containing 5 IgG-binding regions

of protein L. Cell wall binding region, cell membrane binding region and albumin binding region have been removed from the recombinant Protein L to ensure the maximum specific IgG binding. The recombinant Protein L is ideal for purification of polyclonal or monoclonal IgG antibodies. Protein L binds to human, mouse, rat and pig IgG.

Physical Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.
Formulation	Lyophilized from additive free solution.
Endotoxin	Less than 0.1 EU/μg of Protein L as determined by LAL method.