

Protein A/G/L

#R00030

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

Protein A/G/L is a genetically engineered protein that combines the IgG binding profiles of all Protein A, Protein G and Protein L. It is a gene fusion product. Recombinant fusion protein A/G/L contains five Ig-binding regions of protein L, five IgG binding domains from Protein A, and two Ig-binding region of protein G. Cell wall binding regions, albumin binding regions and other non-specific binding regions have all been eliminated from the fusion protein to ensure the maximum specific IgG binding.

AA Sequence

NAAQHDEAQQNAFYQVLNMPNLNADQRNGFIQSLK
DDPSQSANVLGEAQKLND SQAPKADAQQNNFNKDQ
QSAFYEILNMPNLNEAQRNGFIQSLKDDPSQSTNVLG
EAKKLNESQAPKADNNFNKEQQNAFYEILNMPNLNE
EQRNGFIQSLKDDPSQSANLLSEAKKLNESQAPKAD
NKFNKEQQNAFYEILHLPNLNEEQRNGFIQSLKDDPS

QSANLLAEAKKLNDAQAPKADNKFNKEQQNAFYEIL
HLPNLTEEQRNGFIQSLKDDPSVSKEILAEAKKLNDA
QAPKEEDSLEGSGSGTYKLILNGKTLKGETTTEAVDA
ATAEKVFKQYANDNGVDGEW TYDDATKTFTVTEKPE
VIDASELTPAVTTYKL VINGKTLKGETTTKAVDAETA EK
AFKQYANDNGVDGVW TYDDATKTFTVTEEPRARPG
SGSGKEETPETPETDSEEEVTIKANLIFANGSTQTAEF
KGTFEKATSEAYAYADTLKKDNGEYTVDVADKGYTLN
IKFAGKEKTPEEPKKEVTIKANLIYADGKTQTAEFKGT
FEEATAEAYRYADALKKDNGEYTVDVADKGYTLNIKF
AGKEKTPEEPKKEVTIKANLIYADGKTQTAEFKGT FEE
ATAEAYRYADLLAKENGKYTVDVADKGYTLNIKFAGK
EKTPEEPKKEVTIKANLIYADGKTQTAEFKGTFAEATA
EAYRYADLLAKENGKYTADLEDGGYTINIRFAGKKVD
EKPEEKEQVTIKENIYFEDGT VQTATFKGTFAEATAEA
YRYADLLSKEHGKYTADLEDGGYTINIRFAG

Reconstitution

Dissolve in distilled water or saline.

Product Specification

Source	Escherichia coli.
Molecular Weight	Approximately 89.2 kDa, a single non-glycosylated polypeptide chain containing 805 amino acids.
Protein per Gram Powder	See Label.
Concentration for 1 unity OD at 280 nm	1.413 mg/ml
Purity	> 95 % by SDS-PAGE and SEC-HPLC analyses.
Specificity	The recombinant Protein A/G/L is a genetically engineered protein containing 5 IgG-binding regions of protein A, 2 of protein G and 5 of Protein L. Cell wall binding region, cell membrane

binding region and albumin binding region have been removed from the recombinant Protein A/G/L to ensure the maximum specific IgG binding. The recombinant Protein A/G/L is ideal for purification of polyclonal or monoclonal IgG antibodies. Protein A/G/L binds to human, mouse, rat cow, goat, sheep, rabbit, guinea pig, pig, dog and cat 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 A/G/L as determined by LAL method.
