

Product Datasheet

Recombinant Protein G Cys (N-Term) Protein NBP2-34962-50mg

Unit Size: 50 mg

Store at -20 to -70C as supplied. After reconstitution, store at 2 to 8C for 1 month and at -20 to -70C for long term storage. Avoid repeated freeze-thaw cycles.

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NBP2-34962-50mg

Recombinant Protein G Cys (N-Term) Protein

Product Information	
Unit Size	50 mg
Concentration	Lyoph
Storage	Store at -20 to -70C as supplied. After reconstitution, store at 2 to 8C for 1 month and at -20 to -70C for long term storage. Avoid repeated freeze-thaw cycles.
Preservative	No Preservative
Reconstitution Instructions	Dissolve in distilled water or saline.
Purity	>95%, by SDS-PAGE and HPLC
Buffer	Lyophilized from additive free solution.
Target Molecular Weight	21.9 kDa
Product Description	
Description	<p>A single non-glycosylated polypeptide chain containing 201 amino acids corresponding to Protein G with a Cys on the N-terminus. However it migrates with an apparent molecular mass of 40 kDa in SDS-PAGE Source: <i>E. coli</i></p> <p>Uniprot ID: <i>P19909</i></p> <p>Amino Acid Sequence: <i>CLPKTDITYKL ILNGKTLKGE TTTEAVDAAT AEKVKQYAN DNGVDGEWY DDATKTFTVT EKPEVIDASE LTPAVTTYKL VINGKTLKGE TTTEAVDAAT AEKVKQYAN DNGVDGEWY DDATKTFTVT EKPEVIDASE LTPAVTTYKL VINGKTLKGE TTTKAVDAET AEKAFKQYAN DNGVDGVWY DDATKTFTVT E</i></p>
Specificity/Sensitivity	Protein G binds to various human, mouse and rat IgG subclasses (e.g., human IgG1, IgG2, IgG3, IgG4; mouse IgG2a, IgG2b, IgG3; rat IgG2a, IgG2c). It also binds to total IgG from cow, goat, sheep, house and rabbit.
Details of Functionality	Protein G is a genetically engineered protein containing 3 IgG-binding regions of protein G. Cell wall binding region, cell membrane binding region and albumin binding region have been removed from the recombinant Protein G to ensure the maximum specific IgG binding. The recombinant Protein G is ideal for purification of polyclonal or monoclonal IgG antibodies. Protein G binds to various human, mouse and rat IgG subclasses. It also binds to total IgG from cow, goat, sheep, house and rabbit.
Endotoxin Note	Less than 0.1 EU/ug of Protein G as determined by LAL method.
Product Application Details	
Applications	SDS-Page, Bioactivity
Recommended Dilutions	SDS-Page, Bioactivity

Publications

Matthias Paul, Harald Kühnel, Rudolf Oberpertinger, Christoph Mehofer, Doris Pollhammer, Markus Wellenzohn, Alfredo de la Escosura-Muñiz Two-Layer Inkjet-Printed Microwave Split-Ring Resonators for Detecting Analyte Binding to the Gold Surface Sensors (Basel, Switzerland) 2024-03-06 [PMID: 38475224]

Solodka K, Berto M, Ferraro D et al. Detection of Neurofilament Light Chain with Label Free Electrolyte Gated Organic Field Effect Transistors Advanced Materials Interfaces 2022-02-10

Zhichao Lou, Jinfeng Wan, Xiaohong Zhang, HaiqianZhang. Quick and sensitive SPR detection of prion disease-associated isoform (PrP Sc) based on its self-assembling behavior on bare gold film and specific interactions with aptamer-graphene oxide (AGO). Colloids Surf B Biointerfaces 2017-09-01 [PMID: 28570989]





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