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spa, spg
Recombinant Protein A/G, His Tag

Catalog No.	CSI20106A	**Quantity:**	1 mg
	CSI20106B		5 mg
	CSI20106C		1.0 gram

Alternate Names: Immunoglobulin G-binding protein A/G

Description: The recombinant Protein A/G consists of 8 IgG-binding domains EDABC-C1C2C3, which corresponds to the Protein A and G domains that are included in the recombinant sequence. The Protein A portion is from Staphylococcus aureus segments E, D, A, B and C. The Protein G portion is from Streptococcus segments C1, C2 and C3. The binding capacity of recombinant Protein A/G is broader than either Protein A or Protein G alone.

UniProt ID: P02976, P19909

Specificity: The recombinant Protein A/G is a genetically engineered protein containing 5 IgG-binding regions of protein A and 3 of protein G. Cell wall binding region, cell membrane binding region and albumin binding region have been removed from the recombinant Protein A/G to ensure the maximum specific IgG binding. The recombinant Protein A/G is ideal for purification of polyclonal or monoclonal IgG antibodies. Protein A/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, rabbit, guinea pig, pig, dog and cat.

Source: *E. coli*

Molecular Weight: Recombinant Protein A/G, with a C-terminal 6X-His tag, is a single non-glycosylated protein of 513 aa and a predicted MW of 56.9 kDa.

Formulation: Lyophilized from a sterile-filtered solution.

Purity: >96% by SDS-PAGE and RP-HPLC analyses

Endotoxin Level: < 0.1EU/ug of Protein A/G, His tag as determined by LAL method.

Extinction Coefficient: $E^{0.1\%}_{280\ nm} = 0.657$

Amino Acid Sequence:

MNAAQHDEAQ QNAFYQVLNM PNLNADQRNG FIQSLKDDPS QSANVLGEAQ KLNDSQAPKA DAQQNNFNKD QQSAFYEILN MPNLNEAQRN GFIQSLKDDP SQSTNVLGEA KKLNESQAPK ADNNFNKEQQ NAFYEILNMP NLNEEQRNGF IQSLKDDPSQ SANLLSEAKK LNESQAPKAD NKFNKEQQNA FYEILHLPNL NEEQRNGFIQ SLKDDPSQSA NLLAEAKKLN DAQAPKADNK FNKEQQNAFY EILHLPNLTE EQRNGFIQSL KDDPSVSKEI LAEAKKLNDA QAPKEEDSLE GSGSGTYKLI LNGKTLKGET TTEAVDAATA EKVFKQYAND NGVDGEWTYD DATKTFTVTE KPEVIDASEL TPAVTTYKLV INGKTLKGET TTEAVDAATA EKVFKQYAND NGVDGEWTYD DATKTFTVTE KPEVIDASEL TPAVTTYKLV INGKTLKGET TTKAVDAETA EKAFKQYAND NGVDGVWTYD DATKTFTVTE KLAAALEHHH HHH

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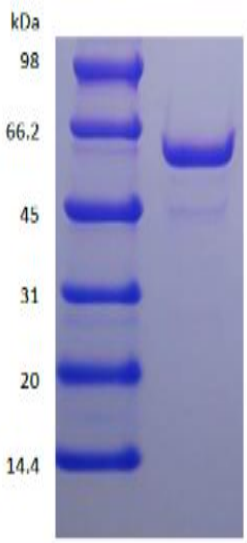
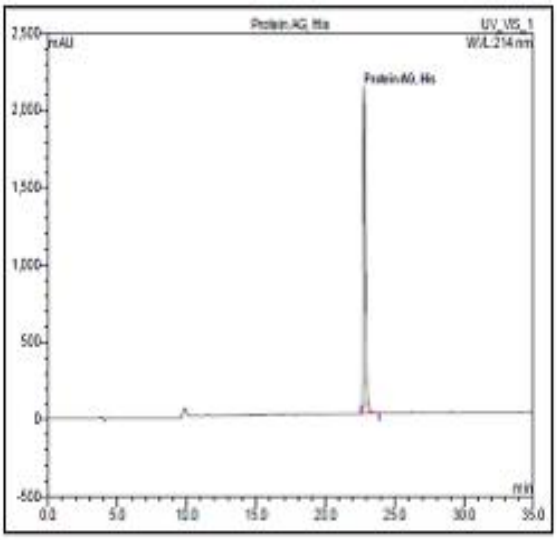
Reconstitution: **Centrifuge vial prior to opening.** Dissolve in distilled water or saline.

Storage & Stability: Store as supplied at -20°C to -80°C for up to 1 year. Upon reconstitution as directed, stable for up to 1 month at 2-8°C or prepare working aliquots and store at -20°C to -80°C for up to 3 months. **Avoid repeated freeze-thaw cycles.**

SDS-PAGE



RP-HPLC



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