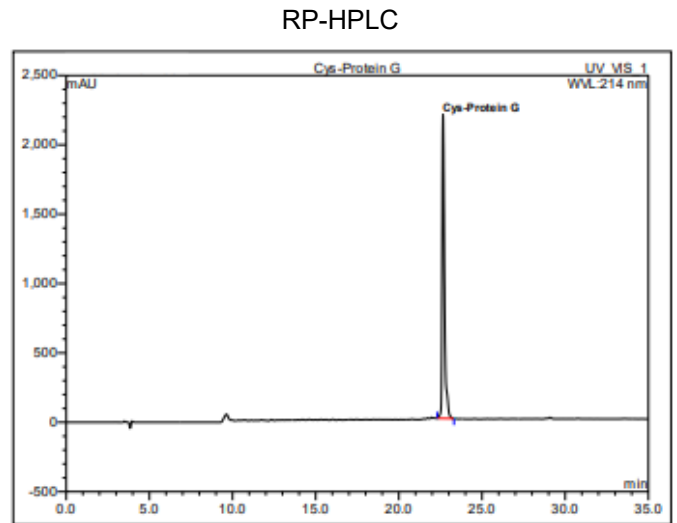
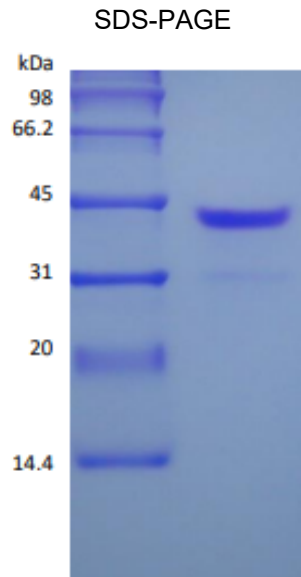


spg

Recombinant Cys-Protein G

Catalog No.	CS479A CS479B CS479C	Quantity:	1 mg 10 mg 1 g
Alternate Names:	Immunoglobulin G-binding protein G		
Description:	<p>Protein G is a bacterial protein derived from the cell wall of certain strains of b-hemolytic <i>Streptococci</i>. It binds with high affinity to the Fc portion of various classes and subclasses of immunoglobulins from a variety of species. Protein G binds to all IgG subclasses from human, mouse and rat species. It also binds to total IgG from guinea pig, rabbit, goat, cow, sheep, and horse. Protein G binds preferentially to the Fc portion of IgG, but can also bind to the Fab region, making it useful for purification of F(ab') fragments of IgG.</p> <p>The recombinant 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.</p>		
UniProt ID:	P19909		
Specificity:	<p>Binds with greater affinity than Protein A to most mammalian immunoglobulins, including human IgG3 and rat IgG2a. Does not bind to human IgM, IgD and IgA. 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.</p>		
Source:	Expressed in <i>E. coli</i> using the sequence from <i>Streptococcus sp.</i> including a Cys residue at N-terminus.		
Molecular Weight:	21.9 kDa predicted (201 aa monomer) 40 kDa on SDS PAGE.		
Formulation:	Lyophilized with no additive.		
Purity:	>95% by SDS-PAGE and RP-HPLC		
Endotoxin Level:	< 0.1 EU/μg, determined by LAL method.		
Extinction Coefficient:	$E_{280nm}^{0.1\%} = 1.37$		
Amino Acid Sequence:	CLPKTDTYKL ILNGKTLKGE TTTEAVDAAT AEKVFQKQYAN DNGVDGEWTY DDATKTFTVT EKPEVIDASE LTPAVTTYKL VINGKTLKGE TTTEAVDAAT AEKVFQKQYAN DNGVDGEWTY DDATKTFTVT EKPEVIDASE LTPAVTTYKL VINGKTLKGE TTTKA VDAET AEKAFKQYAN DNGVDGVWTY DDATKTFTVT E		
Reconstitution:	Centrifuge vial prior to opening. Dissolve in distilled water or saline.		
Storage & Stability:	Lyophilized protein is stable for 1 year at -20°C to -80°C. After reconstitution, stable at 2 -8°C for 1 month under sterile conditions. Recommended to aliquot and store at -20°C to -80°C for up to 3 months. Avoid repeated freeze/thaw cycles.		





NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.



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