

SPA

Recombinant Staphylococcal Protein-A

Catalog No.	CRS141A CRS141B CRS141C	Quantity:	10 mg 100 mg 1 g
Alternate Names:	Immunoglobulin G-binding protein A, IgG-binding protein A, Staphylococcal protein A, SPA.		
Description:	Protein A is a cell wall protein deriving from <i>Staphylococcus aureus</i> which exhibits unique binding properties for IgG from a variety of mammalian species and for some IgM and IgA as well. It binds with the Fc region of immunoglobulins through interaction with the heavy chain. It couples to a wide variety of reporter molecules including fluorescent dyes, enzyme markers, biotin, colloidal gold and radioactive iodine without affecting the antibody binding site. Recombinant Protein A was developed to increase the specificity of the molecule for IgG and is widely used both in research and bioprocessing. The recombinant protein A is produced by expressing a modified protein A gene in <i>E.coli</i>. A specific purification process with strict quality control was taken to get the recombinant protein A with the purity of more than 98%. No human IgG affinity step is used during validated fermentation and purification and the protein is devoid of bacterial contaminant found normally in native Protein A (free of <i>Staphylococcus</i> endotoxins and hemolysin).		
Physical Appearance:	Sterile Filtered clear colorless solution.		
Source:	<i>E. coli</i>		
Molecular Mass:	45 kDa		
Formulation:	The protein solution contains no additives.		
Purity:	>98.0% as determined by RP-HPLC		
Purification:	Recombinant Staphylococcal Protein A is a non-glycosylated polypeptide purified by proprietary chromatographic techniques.		
Activity:	>95% binding activity to human IgG.		
Storage & Stability:	Store in working aliquots below -20°C. Avoid repeated freeze-thaw cycles.		

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