



# Technical Data Sheet

## Lyophilized Protein A, recombinant

### Description

Recombinant Protein A is a genetically engineered form of Protein A derived from *Staphylococcus aureus*. The Protein A molecule contains four high-affinity ( $K_a = 10^8$ /mole) binding sites capable of interacting with the Fc region from IgG of several species including human and rabbit and leaves the Fab region free for binding the antigen.

### Features

*E. coli* recombinant protein  
Lyophilized powder without additive  
Molecular Weight 45 kDa in SDS-Page  
5 IgG-binding domains E-D-A-B-C aligned in series  
Extinction Coefficient ( $E_{280}^{1\%} = 1.65$  ; 1 mg/ml of protein A absorbance at 280nm is 0.165)

### Application

Immunoprecipitation  
ELISA  
Antibody Purification

### Reconstitution

This product should be stored undiluted. Centrifuge vial prior to opening. Reconstitute whole bottle of Lyo Protein A with your buffer to adjust the concentration for further use. Frozen aliquots are stable for at least 6 months when stored at  $-20^{\circ}\text{C}$ . Avoid repeated freeze-thaw cycles. This product should be stored undiluted.

### Storage

Store Lyo protein A at  $-20^{\circ}\text{C}$  with desiccant; if possible, in desiccant.