

Technical Data Sheet



Recombinant Alkali-tolerant Protein A

General Information

Catalog Number: A08S

Formulation: The product is lyophilized from a sterile solution of protein in 5 mM PB (4mM Na₂HPO₄, 1mM NaH₂PO₄, pH7.4)

Mol. Wt.: 31.2kDa
(about 28 kDa on SDS-PAGE)

Theory pI: 5.24

Resources: *Escherichia coli* (*E. coli*)

Purity: ≥95%

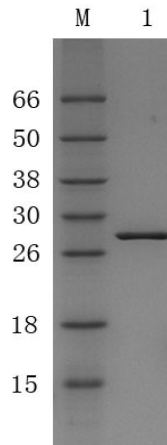
Product is stable for up to three years from date of receipt at -20°C to -80°C.

It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

Description

Protein A is a cell wall protein deriving from *Staphylococcus aureus* 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 preferentially through interaction with the heavy chain. It is conjugated to a wide variety of reporter molecules including fluorescent dyes, enzyme markers, biotin, colloidal gold and radioactive iodine for use in immunology and other biological research without affecting the antibody binding site.

rat-PA is improved in protein stability and alkali tolerant by residue substitution. It is also immobilized onto solid matrix such as agarose beads for IgG purification from ascitic fluid, serum, culture supernatants, cell extracts or interested proteins. For efficient covalently conjugation to resin, one cysteine residue is inserted at the C-terminus of rat-PA.



M: Protein Molecular Weight Marker

Lane 1: rat-PA

Notes:

It is recommended that the product is reconstituted with sterile water into a final concentration of 10 mg/ml freshly.

Research use only or for further manufacturing