

Technical Data Sheet



Recombinant Protein AG

General Information

Product Name: Recombinant Protein AG (r-PAG)

Catalog Number: A14

Packing Details: 1 mg, 10 mg, 100 mg, 500 mg

Formulation: Lyophilized from 5mM PB(4mM Na₂HPO₄, 1mM NaH₂PO₄, pH7.4)

Mol. Wt.: 56.3kDa

Theory pI: 4.74

Theory Activity: 18.1 U/mg protein (rc-SA:Biotin = 1:4(mol:mol))

Resources: Escherichia coli (E. coli)

Purity: ≥95% by SDS-PAGE analysis

Absorptivity: 280nmAbsorption method, molar absorption coefficient is $3.74 \times 10^4 (\text{mol/L})^{-1} \cdot \text{cm}^{-1}$, $c(\text{g/L}) = A_{280\text{nm}}/0.66$

Resources: Escherichia coli (E. coli)

Species: human

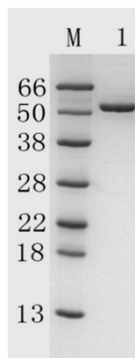
Endotoxin: <5.0 EU/μg protein

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

The recombinant protein a protein G fusion protein (r-pag) fused 8 antibody Fc binding regions, including 5 Fc binding domains of Staphylococcus aureus protein A and 3 Fc binding domains of Streptococcus protein G, and removed the cell wall binding domain, albumin binding domain and non-specific binding domain of protein A and protein G. Compared with single protein A or protein G, it has a wider binding range, and can bind to all human IgG subtypes, IgA, IgE and IgM, but not to mouse IgA, IgM and serum albumin. It is suitable for the extraction and detection of mouse IgG monoclonal antibody. At the same time, the fused r-pag reduced the pH dependence and allowed binding at pH 5-8.



M: Protein molecular weight standard

Lane 1: r-PAG

Notes:

It is recommended that the product is reconstituted with sterile water into a final concentration of no more than 0.5 mg/ml.

The use of strong acids and alkalis, strong oxidants, and high concentrations of organic solvents should be avoided to protect the product from denaturation.

Please contact us for any concerns or special requirements.

Research use only or for further manufacturing