

Alkaline-resistant Protein A(Type 2)

Product Number: RPA017

Shipping and Storage

Freeze dried powder $-20\pm 5^{\circ}\text{C}$, avoid repeated freeze-thaw after dissolution.

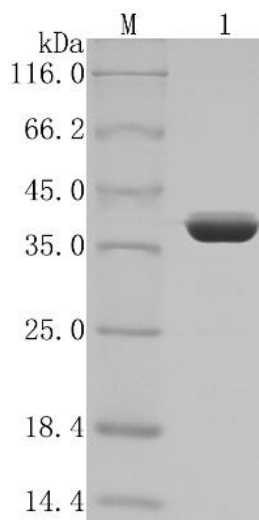
Components

Component	RPA017-1	RPA017-2	RPA017-3	RPA017-4
Alkaline-resistant Protein A(Type 2)	10mg	100mg	500mg	1g

Description

Protein A is a cell wall protein secreted by *Staphylococcus aureus*, also known as Staphylococcal Protein A (SPA). The natural protein A is mainly composed of three functional regions: signal peptide, 5 antibody binding domains, and cell wall peptidoglycan binding domain. The most studied and applied are the 5 antibody binding domains with antibody binding function. Alkali resistant protein A (type 2) modified the antibody binding domain in natural protein A. The modified alkaline resistant protein A (type 2) significantly improved its alkaline resistance and added cysteine at the end of the amino acid sequence for thiol directed coupling. It is suitable for preparing new alkaline resistant protein A microsphere fillers, and the prepared fillers allow for in situ cleaning with 0.1-1.0M NaOH.

Name	Alkaline resistant protein A (Type 2), arProtein A (Type 2)
Source	<i>E. coli</i>
Molecular weight	40.8kDa
Isoelectric point	5.30
Purity	$\geq 95\%$ (SDS-PAGE)
$A_{280\text{nm}}$ (1mg/mL)	0.219
Form	Freeze drying agent, solution before freeze-drying is 5mM PB, pH 7.4
Solubility	Dissolve $\geq 10\text{mg/mL}$ in distilled water
Storage	Freeze dried powder $-20\pm 5^{\circ}\text{C}$, avoid repeated freeze-thaw after dissolution
Validity period	Three years
Transport	Room temperature or low temperature



M: Protein molecular weight standard

1: Alkaline-resistant Protein A(Type 2)