

Protein A-Cys, Long Form

#R00014

Size: 10 mg/100 mg

Stability & Storage

- Use a manual defrost freezer and avoid repeated freeze-thaw cycles.
- 12 months from date of receipt, -20 to -70 °C as supplied.
 - 1 month, 2 to 8 °C under sterile conditions after reconstitution.
 - 3 months, -20 to -70 °C under sterile conditions after reconstitution.



Warning: This product is intended for scientific research only. It is not to be used for medical or diagnostic procedures in humans or animals, nor as a food, cosmetic, or household product.

Background

Protein A is a cell wall component produced by several strains of Staphylococcus aureus that consists of a single polypeptide chain and contains little or no carbohydrate. Recombinant Protein A is produced in E.Coli and functions essentially the same as native Protein A. It consists of 5 IgG-binding domains E-D-A-B-C aligned in series.

AA Sequence

AQHDEAQQNAFYQVLNMPNLNADQRNGFIQSLKDD
PSQSANVLGEAQKLNDSQAPKADAQQNNFNKDQQS
AFYEILNMPNLNEAQRNGFIQSLKDDPSQSTNVLGEA
KKLNESQAPKADNNFNKEQQNAFYEILNMPNLNEEQ
RNGFIQSLKDDPSQSANLLSEAKKLNESQAPKADNK
FNKEQQNAFYEILHLPNLNEEQRNGFIQSLKDDPSQS
ANLLAEAKKLNDAQAPKADNKFNKEQQNAFYEILHLP
NLTEEQRNGFIQSLKDDPSVSKEILAEAKKLNDAQAP
KEEDNKKPGKEDGNKPGKEDGNKPGKEDNKKPGKE

DGNKPGKEDNNKPGKEDGNKPGKEDNNKPGKEDG
NKPGKEDGNKPGKEDGNGVHVVKPGDTVNDIAKAN
GTTADKIAADNKLADKNMIKPGQELVVDC

Reconstitution

Dissolve in distilled water or saline.

Product Specification

Accession	E5R5N7
GenelD	12334695
Source	Escherichia coli.
Molecular Weight	Approximately 46.7 kDa with a Cys on C-terminus, a single non-glycosylated polypeptide chain containing 423 amino acids.
Protein per Gram Powder	See Label.
Concentration for 1 unity OD at 280 nm	6.17 mg/ml
Purity	> 97 % by SDS-PAGE analysis.
Specificity	The recombinant Protein A is a genetically engineered protein containing 5 IgG-binding regions of protein A. The recombinant

Protein A is ideal for purification of polyclonal or monoclonal IgG antibodies. Protein A binds to various human, mouse and rat IgG subclasses (e.g., human IgG1, IgG2, IgG4; mouse IgG2a, IgG2b, IgG3; rat IgG2c). It also binds to total IgG from rabbit, guinea pig, pig, dog and cat.

Physical Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.
Formulation	Lyophilized from additive free solution.
Endotoxin	Less than 0.1 EU/μg of Protein A-Cys, Long Form as determined by LAL method.