

Protein A-Cys

#R00011

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

NAAQHDEAQQNAFYQVLNMPNLNADQRNGFIQSLK
DDPSQSANVLGEAQKLND SQAPKADAQQNNFNKDQ
QSAFYEILNMPNLNEAQRNGFIQSLKDDPSQSTNVLG
EAKKLNESQAPKADNNFNKEQQNAFYEILNMPNLNE
EQRNGFIQSLKDDPSQSANLLSEAKKLNESQAPKAD
NKFNKEQQNAFYEILHLPNLNEEQRNGFIQSLKDDPS
QSANLLAEAKKLND AQAPKADNKFNKEQQNAFYEIL
HLPNLTEEQRNGFIQSLKDDPSVSKEILAEAKKLND A
QAPKEEDC

Reconstitution

Dissolve in distilled water or saline.

Product Specification

Accession	P02976
GeneID	3919448
Source	Escherichia coli.
Molecular Weight	Approximately 33.5 kDa with a Cys on C-terminus, a single non-glycosylated polypeptide chain containing 297 amino acids.
Protein per Gram Powder	See Label.
Concentration for 1 unity OD at 280 nm	4.42 mg/ml
Purity	> 98 % by SDS-PAGE and HPLC analyses.
Specificity	The recombinant Protein A is a genetically engineered protein containing 5 IgG-binding regions

of protein A. Cell wall binding region, cell membrane binding region and albumin binding region have been removed from the recombinant Protein A to ensure the maximum specific IgG binding. 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	Sterile Filtered White lyophilized
Appearance	(freeze-dried) powder.
Formulation	Lyophilized from additive free

Endotoxin	solution. Less than 0.1 EU/μg of Protein A-Cys as determined by LAL method.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at -20 °C.