

ABSOLUTE LECTINS

05-0032 Protein A Variant PAII



Features

- 5 domain, wide range specificity
- High activity and purity
- Recombinant produced
- Animal free production
- Sterile filtered Lyophilized powder

Product description

Protein A originates from *Staphylococcus aureus* and has five antibody binding domains and a cell binding domain. It binds IgG from most mammalian species and some IgA and IgM through the Fc region.

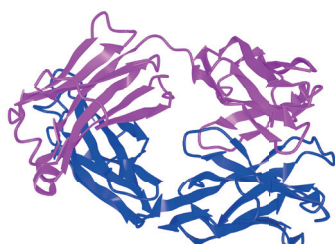


Figure 1: Crystal structure of PAII (1)

Medicagos recombinant protein A, "PAII" is produced in *E. coli* using animal free media. The recombinant form has the cellbinding domain removed, for reduced nonspecified binding and leakage.

PAII is supplied as a lyophilized white flocculate. The purity of PAII is determined by SDS- PAGE, which generates one single band at 42 kDa. The activity is tested by interaction with human IgG. The product is to be used for laboratory work only.

Applications

- Purification of polyclonal and monoclonal antibodies
- Immunoprecipitation

Specifications

Appearance	White to light-pink lyophilized powder or flocculate
Source	Recombinant <i>E. coli</i> .
Molecular weight	42 kDa
Activity	≥ 90%, binding to IgG-Sepharose
Microorganisms	≤100 CFU/g
Shelf life	≥ Five years when stored at -20°C

Directions for use

Dissolve the protein in desired buffer depending on your application.

Shipping and storage

The product is shipped at -20°C however for over-the-day transport it may be shipped at ambient temperature. The lyophilized powder is stable for more than five years from production date when stored below -20°C. After reconstitution, the solution may be stored frozen in working aliquots for up to 12 months.

Tips and hints

Avoid repeated freezing and thawing.



Certifications

Medicago's laboratories and manufacturing site in Uppsala are ISO 9001:2008 and ISO 13485:2012 certified. Each stage of the manufacturing process is controlled and monitored by stringent quality control procedures to guarantee the highest possible quality and lot-to-lot reproducibility.



References

(1) Crystal structure of a Staphylococcus aureus protein A domain complexed with the Fab fragment of a human IgM antibody: structural basis for recognition of B-cell receptors and superantigen activity
Graille M, Stura EA, Corper AL, Sutton BJ, Taussig MJ, Charbonnier JB, Silverman GJ
Proc. Natl. Acad. Sci. U. S. A. (2000) 97 p.5399-5404

Ordering information

Article no.	Product name	Pack size
05-0032-10000	Protein A Variant PAII	10 g
05-0032-1000	Protein A Variant PAII	1 g
05-0032-100	Protein A Variant PAII	100 mg
05-0032-10	Protein A Variant PAII	10 mg