

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.

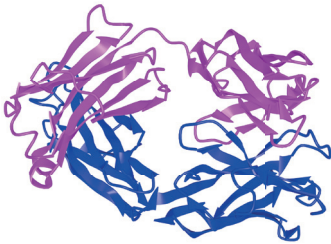


Figure 1: Crystal structure of PAII (1)

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.



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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.



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

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