

Recombinant Yeast PRA1 Protein (16-299 aa), His-tagged

Cat. No. PRA1-2519Y **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Yeast (<i>Candida albicans</i>) (strain SC5314/ATCC MYA-2876) PRA1 Protein (16-299 aa) is produced by Yeast expression system. This protein is fused with a 6xHis tag at the N-terminal. Research Area: Signal Transduction. Protein Description: Full Length of Mature Protein.
Species	Yeast
Source	Yeast
ProteinLength	16-299 aa
Description	Cell surface protein involved in the host-parasite interaction during candidal infection. With MP65, represents a major component of the biofilm matrix. Sequesters zinc from host tissue and mediates leukocyte adhesion and migration. As a surface protein, binds the two human complement regulators CFH and CFHR1, as well as plasminogen PLG, mediates complement evasion and extra-cellular matrix interaction and/or degradation. As a released protein, enhances complement control in direct vicinity of the yeast and thus generates an additional protective layer which controls host complement attack, assisting the fungus in escaping host surveillance. Binds to host fluid-phase C3 and blocks cleavage of C3 to C3a and C3b, leading to inhibition of complement activation. Mediates also human complement control and complement evasion through binding to C4BPA, another human complement inhibitor, as well as through binding to host integrin alpha-M/beta-2. Decreases complement-mediated adhesion, as well as uptake of <i>C.albicans</i> by human macrophages.

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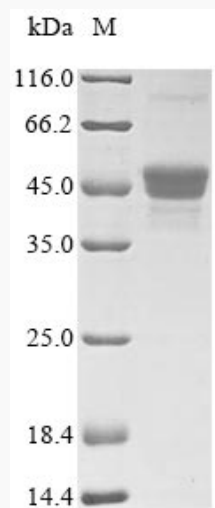
 45-1 Ramsey Road, Shirley, NY 11967, USA

Form	Tris-based buffer,50% glycerol
Molecular Mass	33.4 kDa
AA Sequence	APVTVTRFVDASPTGYDWRADWVKGFIDSSCNATQYNQLSTGLQEAQLLAEHAR DHTLRFGSKSPFFRKYFGNETASAEVVGHFDNVVGADKSSILFLCDDLDDKCKNDG WAGYWRGSNHS DQTIICDLSFVTRRYLTQLCSSGYTVSKSKTNIFWAGDLLHRFWH LKSIGQLVIEHYADTYEEVLELAQENSTYAVRNSNSLIYYALDVYAYDVTIPGEGCNG DGTSYKKSDFFSFDSDSGSDSGASSTASSSHQHTDSNPSATTDANSHCHTHADG EVHC
Purity	> 90% as determined by SDS-PAGE.
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week.
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20 centigrade/-80 centigrade. The shelf life of lyophilized form is 12 months at -20 centigrade/-80 centigrade.
Concentration	A hardcopy of COA will be sent along with the products. Please refer to it for detailed information.
GENE INFORMATION	
Synonyms	PRA1;
UniProt ID	P87020

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(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

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