# Data Sheet (Cat.No.TMPH-00338)

TargetMol

## PRA1 Protein, Candida albicans, Recombinant (His)

### General Information

Synonyms: FBP1;pH-regulated antigen PRA1;PRA1;58 kDa fibrinogen-binding mannoprotein

Protein Construction: 16-299 aa

Species: Candida albicans

Expression Host: P. pastoris (Yeast)

Accession: P87020

Molecular Weight: 33.4 kDa (predicted)

AA Sequence: APVTVTRFVDASPTGYDWRADWVKGFPIDSSCNATQYNQLSTGLQEAQLLAEHARDHTLRFGSKSPFFRKYF GNETASAEVVGHFDNVVGADKSSILFLCDDLDDKCKNDGWAGYWRGSNHSDQTIICDLSFVTRRYLTQLCSS GYTVSKSKTNIFWAGDLLHRFWHLKSIGQLVIEHYADTYEEVLELAQENSTYAVRNSNSLIYYALDVYAYDVTI PGEGCNGDGTSYKKSDFSSFEDSDSGSDSGASSTASSSHQHTDSNPSATTDANSHCHTHADGEVHC

### QC Testing

Biological Activity: Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.

Purity: > 90% as determined by SDS-PAGE.

Endotoxin: < 1.0 EU/μg of the protein as determined by the LAL method.

Formulation: Tris-based buffer, 50% glycerol

### Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

### Protein Background

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 C.albicans by human macrophages.



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