

Plasmeprin-2 Protein, Plasmodium falciparum, Recombinant (His & Myc)

General Information

Synonyms:	PfAPD;PMII;Aspartic hemoglobinase II;PfPM1;Plasmeprin 2;PLM II;Plasmeprin II
Protein Construction:	125-453 aa
Species:	Plasmodium falciparum
Expression Host:	Baculovirus Insect Cells
Accession:	P46925
Molecular Weight:	40.8 kDa (predicted)
AA Sequence:	SSNDNIELVDFQNMIFYGDAEVDGNQQPFTFILDGTGSANLWVPSVKCTTAGCLTKHLYDSSKSRTYEKDGTKV EMNYVSGTVSGFFSKDLVTVGNLSLPYKFIEVIDTNGFEPTYTASTFDGILGLGWKDLSIGSVDPPIVELKNQNK IENALFTFYLPVHDKHTGFLTIGGIEERFYEGPLTYEKLNHDLYWQITLDAHVG NIMLEKANCIVDSGTSAITVPT DFLNKMLQLNDVIKVPFLPFYVTLNNSKLPTEFTSENGKYTLEPEYYLQHIEDVGPGLCMLNIIGLDFPVPTFI LGDPFMRKYFTVFDYDNHSGVIALAKKNL

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:	> 85% 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

During the asexual blood stage, participates in initial cleavage of native host hemoglobin (Hb) resulting in Hb denaturation. May cleave preferentially denatured hemoglobin that has been cleaved by PMI. Digestion of host Hb is an essential step which provides the parasite with amino acids for protein synthesis, and regulates osmolarity

(Probable).

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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