

Plasmeprin-1 Protein, Plasmodium falciparum, Recombinant (His)

General Information

Synonyms: Plasmeprin I; Plasmeprin 1; Aspartic hemoglobinase I; PMI

Protein Construction: 125-452 aa

Species: Plasmodium falciparum

Expression Host: E. coli

Accession: P39898

Molecular Weight: 41.0 kDa (predicted)

AA Sequence: AGDSVTLNDVANVMYYGEAQIGDNKQKFAFIFDTGSANLWVPSAQCNTIGCKTKNLYDSNKSPTYEKDGTK
VEMNYVSGTVSGFFSKDIVTIANLSFPYKFIETDNTNGFEPAYTLGQFDGIVGLGWKDLSIGSVDPVVVELKNQ
NKIEQAVFTFYLPFDDKHGKGYLTIGGIEDRFYEGQLTYEKLNHDLYWQVDLDLHFGNLTVEKATAIVDSGTSSIT
APTEFLNKKFFEGLDVVKIPFLPLYITTCNNPKLPTLEFRSATNVYTLPEPEYLLQIFDFGISLCMVSIIPVDLNKNT
FILGDPFMRKYFTVFDYDNHTVGFALAKKKL

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, catalyzes the initial cleavage of native host hemoglobin (Hb) resulting in Hb denaturation; specifically cleaves between Phe-33 and Leu-34 of Hb alpha-chain. Digestion of host Hb is an essential step which provides the parasite with amino acids for protein synthesis, and regulates osmolarity

(Probable).

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