

PfLDH Protein, *P. falciparum*, Recombinant (His)

General Information

Synonyms: PfLDH;L-lactate dehydrogenase

Protein Construction: A DNA sequence encoding the PfLDH (XP_001349989.1) (Met1-Ala316) was expressed with a polyhistidine tag at the C-terminus. Predicted N terminal: Met

Species: *P. falciparum*

Expression Host: *E. coli*

Accession: Q76NM3

Molecular Weight: 34.9 kDa (predicted)

QC Testing

Biological Activity: Measured by its ability to reduce pyruvate to lactate. The specific activity is >50, 000 pmoles/min/µg.

Purity: > 95 % as determined by SDS-PAGE

Endotoxin: Please contact us for more information.

Formulation: Lyophilized from a solution filtered through a 0.22 µm filter, containing PBS, pH 7.4. Typically, a mixture containing 5% to 8% trehalose, mannitol, and 0.01% Tween 80 is incorporated as a protective agent before lyophilization.

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:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. 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.

Shipping:

In general, Lyophilized powders are shipping with blue ice.

Protein Background

Plasmodium falciparum lactate dehydrogenase (PfLDH) is a key enzyme for energy generation of malarial parasites and is considered to be a potential antimalarial target. The ability of PfLDH- or PfIDeH-based immuno-PCR assays to detect <1 parasite/microL suggests that improvements of bound antibody sensor technology may greatly increase the sensitivity of malaria rapid diagnostic tests. The PfLDH test could be used to detect failures and, therefore, to assess anti-malarial efficacy.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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