

## Recombinant Malaria Falciparum MSP1 protein

Cat. No. MSP1-239M Lot. No. (See product label)

### SPECIFICATION

**Product Overview**

Merozoite surface antigen is a protein located on the outside of the merozoite, playing an imperative role in immune reaction. About 45% cases of malaria are infected by Plasmodium vivax (Pv). Pv. MSP1 has to be used with Plasmodium falciparum (Pf) together for ELISA and rapid diagnostic test, Plasmodium falciparum and vivax infection takes about 95% of Plasmodium caused infection. Recombinant Malaria Pv. MSP1 produced in E.coli and purified by proprietary chromatographic technique.

**Species** Malaria Falciparum

**Source** E.coli

**Description**

Plasmodium falciparum is a protozoan parasite, one of the species of Plasmodium that cause malaria. Malaria parasites are members of the Apicomplexa. Apicomplexa are characterized by a set of organelles found in some stages of the parasite's life cycle. These organelles, collectively known as apical organelles because of their localization at one end of the parasite, are involved in interactions between the parasite and host. In particular, the apical organelles have been implicated in the process of host cell invasion. In the case of Plasmodium, three distinct invasive forms have been identified: sporozoite, merozoite, and ookinete.

**Form**

Sterile Filtered clear solution.  
Sterile Filtered solution containing Phosphate buffered saline, 25mM arginine and 1mM EDTA.

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<b>Purity</b>	Protein is >95% pure as determined by SDS-PAGE.
<b>Applications</b>	Rapid test and Immunoassay.
<b>Usage</b>	The products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.
<b>Storage</b>	Pv. MSP1 although stable at 4°C for 1 week, should be stored below -18°C. Please prevent freeze thaw cycles.
<b>Shipping</b>	Ice Packs
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	MSP1 merozoite surface protein 1 precursor [ Plasmodium falciparum 3D7 ]
<b>Official Symbol</b>	MSP1
<b>Synonyms</b>	MSP1; merozoite surface protein 1 precursor; merozoite surface antigen 1; MSA1; MSP-1; Pf190; PMMSA
<b>Gene ID</b>	813575
<b>mRNA Refseq</b>	XM_001352134.1
<b>Protein Refseq</b>	XP_001352170.1
<b>UniProt ID</b>	Q8I0U8

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