

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.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Purity	Protein is >95% pure as determined by SDS-PAGE.
Applications	Rapid test and Immunoassay.
Usage	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.
Storage	Pv. MSP1 although stable at 4°C for 1 week, should be stored below -18°C. Please prevent freeze thaw cycles.
Shipping	Ice Packs

GENE INFORMATION

Gene Name	MSP1 merozoite surface protein 1 precursor [<i>Plasmodium falciparum</i> 3D7]
Official Symbol	MSP1
Synonyms	MSP1; merozoite surface protein 1 precursor; merozoite surface antigen 1; MSA1; MSP-1; Pf190; PMMSA
Gene ID	813575
mRNA Refseq	XM_001352134.1
Protein Refseq	XP_001352170.1
UniProt ID	Q8I0U8

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