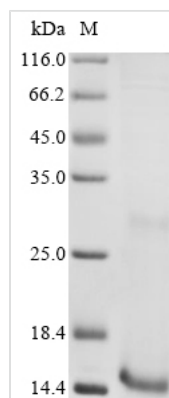




Recombinant Plasmodium falciparum Gametocyte surface protein P230 (PFS230), partial

Product Code	CSB-EP302412EWP
Abbreviation	Recombinant Plasmodium falciparum PFS230 protein, partial
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	P68874
Form	Liquid or Lyophilized powder
Storage Buffer	If the delivery form is liquid, the default storage buffer is Tris/PBS-based buffer, 5%-50% glycerol. If the delivery form is lyophilized powder, the buffer before lyophilization is Tris/PBS-based buffer, 6% Trehalose.
Product Type	Recombinant Protein
Immunogen Species	Plasmodium falciparum (isolate 3D7)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	YKEIHGCDFTGKYSHLFTYSKKPLPNDDDICNVTIGNNTFSGFACLSHFELKPN NCFSSVYDYNEANKVKKLFDLSTKVELDHIKQNTSGYTLSYIIFNKESTKLKFSC TCSSNYSNYTIRITFDPNYIIEPQSR
Research Area	Others
Source	E.coli
Target Names	PFS230
Expression Region	2980-3116aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	Tag-Free
Mol. Weight	15.9 kDa
Protein Length	Partial
Image	



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

Description

The recombinant *Plasmodium falciparum* (isolate 3D7) PFS230 was expressed with the amino acid range of 2980-3116. The expected molecular weight for the PFS230 protein is calculated to be 15.9 kDa. This protein is generated in a *e.coli*-based system. The PFS230 coding gene included the Tag-Free, which simplifies the detection and purification processes of the recombinant PFS230 protein in following stages of expression and purification.

The *Plasmodium falciparum* Gametocyte surface protein P230 (PFS230) is a crucial protein associated with the sexual stage of the malaria parasite's life cycle. Expressed on the surface of male and female gametocytes, PFS230 plays a vital role in the development and transmission of the parasite between the human host and the mosquito vector. PFS230 is involved in the formation of male and female gametes and subsequent fertilization within the mosquito midgut. Understanding the function of PFS230 is essential for developing interventions to disrupt the transmission of malaria, as targeting proteins involved in the sexual stages of the parasite's life cycle could potentially prevent its spread in the population.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.