

Plasmodium falciparum* Pfg27 Protein with C-Terminal Histidine Tag, Recombinant from *Escherichia coli

Catalog No. MRA-1274

Product Description: A recombinant form of the Pfg27 protein containing an N-terminal maltose binding protein (MBP) and a C-terminal histidine tag was expressed in *Escherichia coli*. After initial purification with Dextrin Sepharose and Sephacryl 200, the MBP fragment was removed with Factor Xa and the resulting His₆-tagged protein was purified by nickel affinity chromatography.

Lot: 64242143

Manufacturing Date: 28MAR2016

TEST	SPECIFICATIONS	RESULTS
Appearance	Clear and colorless	Clear and colorless
Purity by SDS-PAGE Densitometry Scan	Protein band of interest represents > 90% of total staining intensity	Dominant band of ~ 30 kDa accounts for > 90% of total staining intensity (Figure 1)
Concentration by Bradford Assay ¹	Report results	0.49 mg per mL
Final Product Quantity per vial Volume per vial	Report results Report results	236 µg 481 µL
Identification by Western Blot Monoclonal anti-histidine tag ² Monoclonal anti-MBP ³	Reactive Non-reactive	Reactive (Figure 2) Non-reactive (Figure 3)
Endotoxin Content (Limulus Amoebocyte Lysate Assay)	Report results	44.08 EU per mg
Filtration	0.2 µm sterile-filtered	0.2 µm sterile-filtered

¹Using bovine serum albumin (BSA) as a standard

²Clontech (Catalog No. 631212) (1:1000 dilution)

³New England BioLabs® Inc. (Catalog No. E8032S) (1:50,000 dilution)

Date: 17 AUG 2016

Signature: 

BEI Resources Authentication

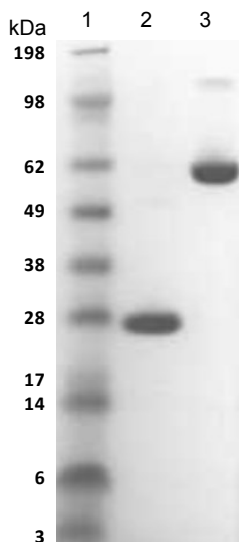
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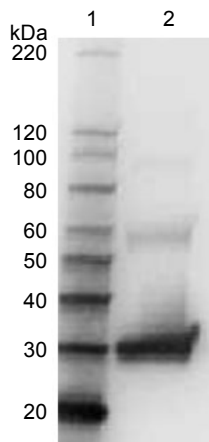


Figure 1: SDS-PAGE



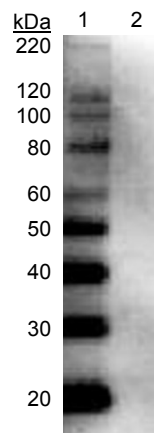
Lane 1: SeeBlue® Plus2 Pre-Stained Protein Standard
 Lane 2: MRA-1274, 2 µg
 Lane 3: BSA, 2 µg

Figure 2: Western Blot with Monoclonal Anti-Histidine Tag



Lane 1: MagicMark™ XP Protein Standard
 Lane 2: MRA-1274, 0.25 µg

Figure 3: Western Blot with Monoclonal Anti-MBP



Lane 1: MagicMark™ XP Protein Standard
 Lane 2: MRA-1274, 0.05 µg