

HUMAN PMEL PROTEIN, HFC TAG**Cat.#:** 11231**Product Name:** Human PMEL Protein**Size:** 10 µg, 50 µg and 100 µg**Synonyms:** D12S53E;gp100;ME20;ME20-M;ME20M;P1;P100;PMEL17;SI;SIL;SILV**Target:** PMEL**UNIPROT ID:** P40967**Description:** Recombinant human PMEL Protein with C-terminal Human Fc tag

Background: This gene encodes a melanocyte-specific type I transmembrane glycoprotein. The encoded protein is enriched in melanosomes, which are the melanin-producing organelles in melanocytes, and plays an essential role in the structural organization of premelanosomes. This protein is involved in generating internal matrix fibers that define the transition from Stage I to Stage II melanosomes. This protein undergoes a complex pattern of posttranslational processing and modification that is essential to the proper functioning of the protein. A secreted form of this protein that is released by proteolytic ectodomain shedding may be used as a melanoma-specific serum marker. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Jan 2011]

Species/Host: HEK293

Molecular Weight: The protein has a predicted molecular mass of 46.2 kDa after removal of the signal peptide. The apparent molecular mass of PMEL-hFc is approximately 130–250 kDa due to glycosylation.

Molecular Characterization: PMEL(Lys25–Ala595) hFc(Glu99–Ala330)

Purity: The purity of the protein is greater than 95% as determined by SDS-PAGE and Coomassie blue staining.

Formulation & Reconstitution: Lyophilized from nanodisc solubilization buffer (20 mM Tris-HCl, 150 mM NaCl, pH 8.0). Normally 5% – 8% trehalose is added as protectants before lyophilization.

Storage & Shipping: Store at –20°C to –80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at –80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature.

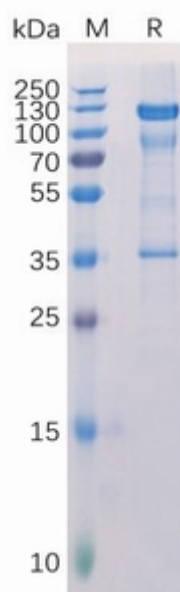


Figure 1. Human PMEL Protein, hFc Tag on SDS-PAGE under reducing condition.