

Human PMEL protein

Cat#: orb757437 (Datasheet)

Catalog Number orb757437

Description Recombinant human PMEL Protein with C-terminal Human Fc tag

Synonyms D12S53E, gp100, ME20, ME20-M, ME20M, P1, P100, PMEL17, SI, SIL, SILV

Uniprot ID P40967

Expression Host HEK293

Tag C-Human Fc tag

Molecular Characterization

PMEL (Lys25-Ala595)

hFc (Glu99-Ala330)

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.

Purity

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

Formulation & Reconstitution

Lyophilized from sterile PBS, pH 7.4. Normally 5% - 8% trehalose is added as protectants before lyophilization. Please see Certificate of Analysis for specific instructions.

Storage

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.

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Images

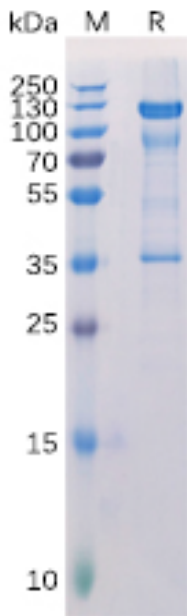


Figure 1. Human PMEL Protein, hFc Tag on SDS-PAGE under reducing condition.

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]