

Recombinant Human PMEL Protein, His-tagged

Cat. No. PMEL-2601H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human PMEL Protein (Gln470-Val661) with a N-His tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Gln470-Val661
Description	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.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 24.2 kDa
Endotoxin	<1.0 EU per 1g (determined by the LAL method).

 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	> 97%
Applications	Positive Control; Immunogen; SDS-PAGE; WB.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in PBS or others.

GENE INFORMATION

Gene Name	PMEL premelanosome protein [Homo sapiens (human)]
Official Symbol	PMEL
Synonyms	PMEL; premelanosome protein; SIL, SILV, silver (mouse homolog) like, silver homolog (mouse); melanocyte protein PMEL; D12S53E; gp100; Pmel17; SI; melanocyte protein mel 17; silver, mouse, homolog of; melanocyte protein Pmel 17; melanosomal matrix protein17; silver locus protein homolog; melanoma-associated ME20 antigen; melanocytes lineage-specific antigen GP100; P1; SIL; ME20; P100; SILV; ME20M; ME20-M; PMEL17;
Gene ID	6490

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mRNA Refseq	NM_001200053
Protein Refseq	NP_001186982
MIM	155550
UniProt ID	P40967

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