





# Recombinant Human Melanocyte protein PMEL (PMEL), partial

<b>Product Code</b>	CSB-YP021324HU
Relevance	Plays a central role in the biogenesis of melanosomes. Involved in the maturation of melanosomes from stage I to II. The transition from stage I melanosomes to stage II melanosomes involves an elongation of the vesicle, and the appearance within of distinct fibrillar structures. Release of the soluble form, ME20-S, could protect tumor cells from antibody mediated immunity.
Abbreviation	Recombinant Human PMEL 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.	P40967
Alias	ME20-M ;ME20MMelanocyte protein Pmel 17Melanocytes lineage-specific antigen GP100Melanoma-associated ME20 antigen;P1;P100Premelanosome protein;Silver locus protein homolog
<b>Product Type</b>	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	KVPRNQDWLGVSRQLRTKAWNRQLYPEWTEAQRLDCWRGGQVSLKVSNDG PTLIGANASFSIALNFPGSQKVLPDGQVIWVNNTIINGSQVWGGQPVYPQETD DACIFPDGGPCPSGSWSQKRSFVYVWKTWGQYWQVLGGPVSGLSIGTGRA MLGTHTMEVTVYHRRGSRSYVPLAHSSSAFTITDQVPFSVSVSQLRALDGGN KHFLRNQPLTFALQLHDPSGYLAEADLSYTWDFGDSSGTLISRALVVTHTYLEP GPVTAQVVLQAAIPLTSCGSSPVPGTTDGHRPTAEAPNTTAGQVPTTEVVGTT PGQAPTAEPSGTTSVQVPTTEVISTAPVQMPTAESTGMTPEKVPVSEVMGTTL AEMSTPEATGMTPAEVSIVVLSGTTAAQVTTTEWVETTARELPIPEPEGPDAS SIMSTESITGSLGPLLDGTATLRLV
Research Area	Metabolism
Source	Yeast
Target Names	PMEL
Protein Names	Recommended name: Melanocyte protein PMELAlternative name(s): ME20-M Short name= ME20M Melanocyte protein Pmel 17 Melanocytes lineage-specific antigen GP100 Melanoma-associated ME20 antigen P1 P100 Premelanosome protein Si
<b>Expression Region</b>	25-467aa



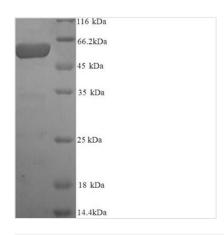




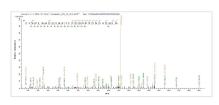


Tag Info	N-terminal 6xHis-tagged
Mol. Weight	49.0kDa
Protein Length	Partial

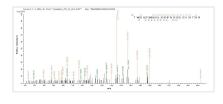
# **Image**



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



Based on the SEQUEST from database of Yeast host and target protein, the LC-MS/MS Analysis result of CSB-YP021324HU could indicate that this peptide derived from Yeast-expressed Homo sapiens (Human) PMEL.



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## **Description**

An ORF cDNA corresponding to the peptide of Human Melanocyte protein PMEL was expressed with an N-terminal 6xHis-tag in the yeast cells. PMEL CSB-YP021324HU is a truncated molecule with amino acids of Lys25-Val467. Its purity is greater than 90% assessed by SDS-PAGE. A molecular mass band of about 52 kDa was presented on the gel under reducing conditions. It was also validated by the LC-MS/MS analysis. This recombinant PMEL protein may be used to produce specific anti-PMEL antibodies or in the studies of PMELassociated metabolism.

Premelanosome Protein (PMEL) is an amyloid protein that participates in the melanosome matrix formation through the interaction with melanin. Eumelanin deposition requires the expression of PMEL and proper formation of the melanosome matrix, both of which are not crucial for the development of pheomelanic melanosomes. As a consequence, PMEL mutations lead to eumelanin defects in cattle, chicken, and mouse. PMEL mutations are also associated with pigmentary glaucoma in humans.

#### 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



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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**

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