

Recombinant Human PMEL Protein, Tag Free

Cat. No. PMEL-01H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human PMEL protein without tag was expressed in E. coli
Species	Human
Source	E.coli
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.
Molecular Mass	The protein has a calculated MW of 60.5 kDa.
AA Sequence	MGATKVPRNQDWLGVSRLRTKAWNRQLYPEWTEAQRDCWRGGQVSLKVSND GPTLIGANASFSIALNFPQSQKVLDPGQVIWVNNTIINGSQVWGGQPVYPQETDDAC IFPDGGPCPSGSWSQKRSFVYVWKTWGQYWQVLGGPVSGLSIGTGRAMLGHTM EVTVYHRRGSRSYVPLAHSSSAFTITDQVPFSVSVSQLRALDGGNKHFLRNQPLTFA LQLHDPGSGYLAEADLSYTWDFGDSSGTLISRALVVTHTYLEPGPVTAQVVLQAAIPLT SCGSSPVPGTDDGHRPTAEAPNTTAGQVPTTEVVGTPGQAPTAEPSTTSVQVPT

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TEVISTAPVQMPTAESTGMTPEKVPVSEVMGTTLAEMSTPEATGMTPAEVSIVVLSG
TTAAQVTTTEWVETTARELPIPEPEGPDASSIMSTESITGSLGPLLDGTATLRLVKRQ
VPLDCVLYRYGSFSVTLDIVQGIESAEILQAVPSGEGDAFELTVSCQGGLPKEACMEI
SSPGCQPPAQRLCQPVLPSPACQLVLHQILKGGSGTYCLNVSLADTNSLAVVSTQLI
MPGQEAG

Purity >90% by SDS-PAGE

Storage Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

Concentration 1.8 mg/mL

Storage Buffer PBS, pH7.4, 10% glycerol

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

mRNA Refseq NM_001200053

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Protein Refseq	NP_001186982
MIM	155550
UniProt ID	P40967

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