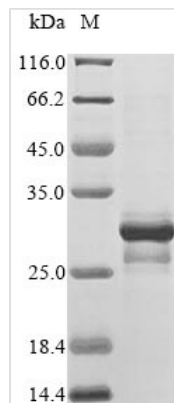




# Recombinant Human Melanoma antigen recognized by T-cells 1 (MLANA)

<b>Product Code</b>	CSB-EP621968HU
<b>Relevance</b>	Involved in melanosome biogenesis by ensuring the stability of GPR143. Plays a vital role in the expression, stability, trafficking, and processing of melanocyte protein PMEL, which is critical to the formation of stage II melanosomes.
<b>Abbreviation</b>	Recombinant Human MLANA protein
<b>Storage</b>	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.
<b>Uniprot No.</b>	Q16655
<b>Alias</b>	Antigen LB39-AAAntigen SK29-AAProtein Melan-A
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Purity</b>	Greater than 90% as determined by SDS-PAGE.
<b>Sequence</b>	MPREDAHFIIYGYPKKGHGHSYTTAEAAAGIGILTVILGVLLIGCWYCRRRNGY RALMDKSLHVGTTQCALTRRCPQEGFDHRDSKVSLQEKNCEPVVPNAPPAYEK LSAEQSPPPYSP
<b>Research Area</b>	Cancer
<b>Source</b>	E.coli
<b>Target Names</b>	MLANA
<b>Protein Names</b>	Recommended name: Melanoma antigen recognized by T-cells 1 Short name= MART-1Alternative name(s): Antigen LB39-AA Antigen SK29-AA Protein Melan-A
<b>Expression Region</b>	1-118aa
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	N-terminal 6xHis-B2M-tagged
<b>Mol. Weight</b>	27.2kDa
<b>Protein Length</b>	Full Length
<b>Image</b>	



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

## Description

The expression region of this recombinant Human MLANA covers amino acids 1-118. This MLANA protein is expected to have a theoretical molecular weight of 27.2 kDa. This MLANA protein is produced using e.coli expression system. Fusion of the N-terminal 6xHis-B2M tag into the MLANA encoding gene fragment was conducted, allowing for easier detection and purification of the MLANA protein in subsequent stages.

Human melanoma antigen recognized by T-Cells 1 (MLANA), also known as MART-1, is a key antigen in melanocytes and melanomas. Its main function lies in presenting epitopes to T-cells, crucial for immune responses against melanoma cells. MLANA's role as a tumor antigen makes it a target in cancer immunotherapy, aiding in the development of vaccines and adoptive T-cell therapies for melanoma. In cancer research, MLANA serves as a biomarker for melanoma prognosis. Additionally, MLANA's involvement in melanocyte biology contributes to skin pigmentation studies. Investigating MLANA offers insights into melanoma immunology, cancer therapy development, and skin biology, with potential applications in personalized cancer treatment.

## 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 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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