MLANA Protein, Human (His, B2M)

Cat. No.:	HY-P71544
Synonyms:	Antigen LB39 AA; Antigen LB39-AA; Antigen SK29 AA; Antigen SK29-AA; MAR1_HUMAN; MART 1; MART-1; MART1; Melan A; Melan A protein; Melanoma antigen recognized by T cells 1; Melanoma antigen recognized by T-cells 1; MLAN A; MLANA; OTTHUMP00000021036; OTTHUMP00000021037; OTTHUMP00000021038; Protein Melan-A
Species:	Human
Source:	E. coli
Accession:	Q16655 (1M-118P)
Gene ID:	2315
Molecular Weight:	Approximately 27.2 kDa

PROPERTIES

AA Sequence	M P R E D A H F I Y G Y P K K G H G H S Y T T A E E A A G I G I L T V I L G V L L L I G C W Y C R R R N G Y R A L M D K S L H V G T Q C A L T R R C P Q E G F D H R D S K V S L Q E K N C E P V V P N A P P A Y E K L S A E Q S P P P Y S P
Appearance	Lyophilized powder.
Formulation	Lyophilized after extensive dialysis against solution in Tris-based buffer, 50% glycerol.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	The MLANA protein is integral to melanosome biogenesis, ensuring the stability of GPR143 and playing a crucial role in the expression, stability, trafficking, and processing of the melanocyte protein PMEL. Its involvement in these processes is essential for the formation of stage II melanosomes. MLANA interacts with both PMEL and GPR143, establishing its role in the intricate network of protein interactions necessary for melanosome development. The coordination of these interactions underscores the significance of MLANA in melanocyte biology and the biogenesis of melanosomes.

Caution: Product has not been fully validated for medical applications. For research use only.

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