



Recombinant Human Melanophilin (MLPH)

Product Code	CSB-EP014640HU
Abbreviation	MLPH
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.	Q9BV36
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	>85% (SDS-PAGE)
Sequence	MGKKLDLSKL TDEEAQHVLE VVQRDFDLRR KEEERLEALK GKIKKESSKR ELLSDTAHLN ETHCARCLQP YQLLVNSKRQ CLECGFLTCK SCGRVHPEEQ GWICDPCHLA RVVKIGSLEW YYEHVKARFK RFGSAKVIRS LHGRLQGGAG PELISEERSG DSDQTDEEDGE PGSEAQAQAQ PFGSKKKRLL SVHDFDFEGD SDDSTQPQGH SLHLSSVPEA RDSPQSLTDE SCSEKAAPHK AEGLEEADTG ASGCHSHPEE QPTSISPSRH GALAELCPPG GSHRMALGTA AALGSNVIRN EQLPLQYLAD VDTSDEESIR AHVMASHHSK RRGRASSESQ IFELNKHISA VECLLYLEN TVVPPLAKGL GAGVRTEADV EEEALRRKLE ELTSNVSDQE TSSEEEEEAKD EKAEPNRDKS VGPLPQADPE VGTAAHQTNR QEKSPQDPGD PVQYNRTTDE ELSELEDRVA VTASEVQQAE SEVSDIESRI AALRAAGLTV KPSGKPRRKS NLPIFLPRVA GKLGKRPEDP NADPSSEAKA MAVPYLLRRK FSNSLKSQ GK DDDSFDRKSV YRGSLTQRNP NARKGMASHT FAKPVVAHQ S
Source	E.coli
Target Names	MLPH
Protein Names	Recommended name: Melanophilin Alternative name(s): Exophilin-3 Slp homolog lacking C2 domains a Short name= SlaC2-a Synaptotagmin-like protein 2a
Expression Region	1-600
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	Tag type will be determined during the manufacturing process.
Protein Length	full length protein
Target Details	This gene encodes a member of the exophilin subfamily of Rab effector proteins. The protein forms a ternary complex with the small Ras-related GTPase Rab27A in its GTP-bound form and the motor protein myosin Va. A similar protein complex in mouse functions to tether pigment-producing organelles called melanosomes to the actin cytoskeleton in melanocytes, and is required for visible pigmentation in the hair and skin. A mutation in this gene results in Griscelli syndrome type 3, which is characterized by a silver-gray hair



color and abnormal pigment distribution in the hair shaft. Several alternatively spliced transcript variants of this gene have been described, but the full-length nature of some of these variants has not been determined.

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

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.