

Recombinant Human MLP3B/MAP1LC3B protein (His tag)



Catalog Number:PDEH100241

Note: Centrifuge before opening to ensure complete recovery of vial contents.

Description

Synonyms	MLP3B;ATG8F;Autophagy related protein LC3 A;Autophagy related ubiquitin like modifier LC3 A;Autophagy related ubiquitin like modifier LC3 B;LC3;MAP1 light chain 3 like protein 1;MAP1 light chain 3 like protein 2;MAP1A/1B light chain 3 A;MAP1A/1BLC3;MAP1ALC3;MAP
Species	Human
Expression Host	E.coli
Sequence	Met 1-Val 125
Accession	Q9GZQ8
Calculated Molecular Weight	13.6 kDa
Observed molecular weight	18 kDa
Tag	N-His

Properties

Purity	> 95 % as determined by reducing SDS-PAGE.
Endotoxin	Please contact us for more information.
Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
Reconstitution	Please refer to the printed manual for detailed information.

Background

Ubiquitin-like modifier involved in formation of autophagosomal vacuoles. Plays a role in mitophagy which contributes to regulate mitochondrial quantity and quality by eliminating the mitochondria to a basal level to fulfill cellular energy requirements and preventing excess ROS production. In response to cellular stress and upon mitochondria fission, binds C-18 ceramides and anchors autophagolysosomes to outer mitochondrial membranes to eliminate damaged mitochondria. While LC3s are involved in elongation of the phagophore membrane, the GABARAP/GATE-16 subfamily is essential for a later stage in autophagosome maturation.

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