Data Sheet (Cat.No.TMPJ-01321)

TargetMol

MAP1LC3B Protein, Human, Recombinant

General Information

Synonyms:	Autophagy-related ubiquitin-like modifier LC3 B;MAP1A/MAP1B LC3 B;Microtubule-associated protein 1 lig;MAP1 light chain 3-like protein 2;Autophagy-related protein LC3 B;Microtubule-associated proteins 1A/1B light chain 3B;MAP1A/MAP1B light chain 3 B
Protein Construction:	Met1-Val125
Species:	Human
Expression Host:	E. coli
Accession:	Q9GZQ8
Molecular Weight:	15 KDa (reducing condition)
AA Sequence:	Met1-Val125

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	Greater than 95% as determined by reducing SDS-PAGE. (QC verified)
Endotoxin:	< 0.1 ng/μg (1 EU/μg) as determined by LAL test.
Formulation:	Lyophilized from a solution filtered through a 0.22 μm filter, containing 20 mM Tris-HCl, 150 mM NaCl, 2 mM DTT, pH 8.0 .

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 μg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Microtubule-associated proteins 1A/1B light chain 3B (MAP1LC3B) is a member of the highly conserved ATG8 protein family. ATG8 proteins are present in all known eukaryotic organisms. MAP1LC3B is one of the four genes in

the MAP1LC3 subfamily (others include MAP1LC3A, MAP1LC3C, and MAP1LC3B2). It is moat abundantly expressed in heart, brain, skeletal muscle and testis. LMAP1LC3B is a subunit of neuronal microtubule and functions in formation of autophagosomal vacuoles (autophagosomes). It associated MAP1A and MAP1B proteins, which are involved in microtubule assembly and important for neurogenesis. MAP1LC3B also plays a role in autophagy, a process that involves the bulk degradation of cytoplasmic component.

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481