

Human LC3A / MAP1LC3A Protein (His Tag)



Sino Biological
Biological Solution Specialist

Catalog Number: 14322-H08E

General Information

Gene Name Synonym:

ATG8E; LC3; LC3A; MAP1ALC3; MAP1BLC3

Protein Construction:

A DNA sequence encoding the mature form of human MAP1LC3A (Q9H492-1) (Met1-Phe121) was expressed with a polyhistidine tag at the C-terminus.

Source: Human

Expression Host: E. coli

QC Testing

Purity: > 95 % as determined by SDS-PAGE

Endotoxin:

Please contact us for more information.

Stability:

Samples are stable for up to twelve months from date of receipt at -70 °C

Predicted N terminal: Met

Molecular Mass:

The recombinant human MAP1LC3A consists of 127 amino acids and predicts a molecular mass of 15.1 KDa. It migrates as an approximately 17 KDa band in SDS-PAGE under reducing conditions.

Formulation:

Lyophilized from sterile PBS, 10% glycerol, pH 7.5

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

Usage Guide

Storage:

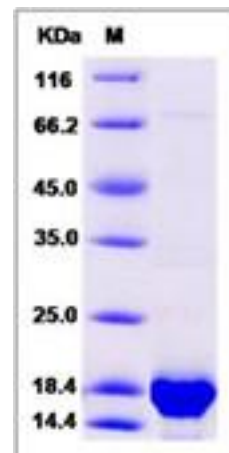
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:



Protein Description

LC3A, also known as MAP1LC3A, is one of the light chain subunits that functions together with both MAP1A and/or MAP1B. MAP1A and MAP1B are microtubule-associated proteins which mediate the physical interactions between microtubules and components of the cytoskeleton. MAP1A and MAP1B each consist of a heavy chain subunit and multiple light chain subunits. As a light chain subunit, MAP1LC3A has an important part in neuronal development and in maintaining the balance between neuronal plasticity and rigidity. MAP1LC3A is expressed as two alternatively spliced isoforms that are expressed in testis, brain, heart, liver and skeletal muscle, but are absent in thymus and peripheral blood leukocytes.

References

1.He H., *et al.*,(2003), Post-translational modifications of three members of the human MAP1LC3 family and detection of a novel type of modification for MAP1LC3B. J. Biol. Chem. 278:29278-29287. 2.Deloukas P., *et al.*, (2001), The DNA sequence and comparative analysis of human chromosome 20.Nature 414:865-871. 3.Bechtel S., *et al.*,(2007), The full-ORF clone resource of the German cDNA consortium.BMC Genomics 8:399-399.

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