Recombinant human LC3A/MAP1LC3A protein

Catalog Number: ATGP0656

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-120aa

UniProt No.
Q9H492

NCBI Accession No.
NP_115903.1

Alternative Names
"Microtubule associated protein 1 light chain 3 alpha, Microtubule-associated proteins 1A/1B light chain 3A, Autophagy-related protein LC3 A, Autophagy-related ubiquitin-like modifier LC3 A, MAP1 light chain 3-like protein 1, MAP1A/MAP1B light chain 3 A, MAP1A, MAP1B LC3 A, MAP1BLC3, MAP1ALC3, LC3, LC3A, ATG8E "

PRODUCT SPECIFICATION

Molecular Weight
15.1 kDa (128aa) confirmed by MALDI-TOF

Concentration
1mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 20% glycerol, 0.1M NaCl

Purity
> 95% by SDS-PAGE

Tag
His-Tag

Application
SDS-PAGE

Storage Condition
Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description
Microtubule-associated proteins 1A/1B light chain 3A isoform a, also known as MAP1LC3A, is one of the light chain subunits and can associate with either MAP1A or MAP1B. It plays critical roles 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

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in thymus and peripheral blood leukocytes. Recombinant human MAP1LC3A protein, fused to His-tag at C-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

Amino acid Sequence

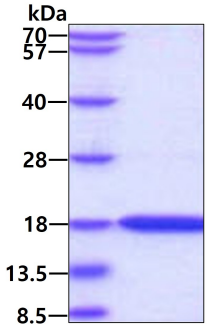
MPSDRPFKQR RSFADRCKEV QQIRDQHPSK IPVIIERYKG EKQLPVLDKT KFLVPDHVNM SELVKIIRRR LQLNPTQAFF LLVNQHSMVS VSTPIADIYE QEKDEDGFLY MVYASQETFG <LEHHHHHH>

General References

Schoenfeld TA., et al. (1989) J Neurosci. 9(5):1712-30.
Mann., et al. (1996) J Neurosci Res. 43:535-544.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.