Recombinant human LC3B/MAP1LC3B protein

Catalog Number: ATGP1039

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-120aa

UniProt No.
A6NCE7

NCBI Accession No.
NP_001078950

Alternative Names
Microtubule-associated proteins 1A/1B light chain 3B, Microtubule associated protein 1 light chain 3 beta, MAP1ALC3, MAP1A/MAP1B light chain 3 B, MAP1A/MAP1B LC3 B, MAP1 light chain 3-like protein 2, Autophagy-related ubiquitin-like modifier LC3 B, Autophagy-related protein LC3 B, ATG8F

PRODUCT SPECIFICATION

Molecular Weight
16.2 kDa (140aa) confirmed by MALDI-TOF

Concentration
1mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 10% 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 3 beta 2, also as known as MAP1LC3B2, belongs to the MAP1LC3 family. MAP1LC3B2 is a subunit of neuronal microtubule-associated MAP1A and MAP1B proteins, which are involved in microtubule assembly and important for neurogenesis. This protein probably involved in formation of autophagosomal vacuoles (autophagosomes). It is expressed primarily in heart, testis, brain and

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skeletal muscle and testis. Recombinant human MAP1LC3B2 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

Amino acid Sequence

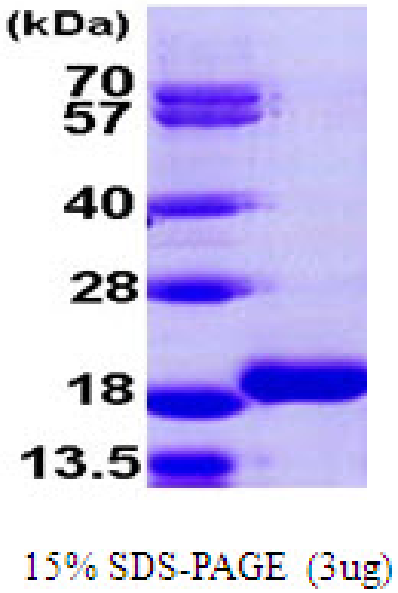
MGSSHHHHHH SSGLVPRGSH MPSEKTFKQR RTFEQRVEDV RLIREQHPTK IPVIIERYKG EKQLPVLDKT KFLVPDHVNM SELIKIIRRR LQLNANQAFF LLVNGHSMVS VSTPISEVYE SEKDEDGFLY MVCASQETFG

General References

He H., et al. (2003) J. Biol. Chem. 278:29278-29287
Seidenbecher C.I., et al. (2004) J. Mol. Biol. 336:957-970

DATA

SDS-PAGE



15% SDS-PAGE (3ug)

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