

Recombinant human ATG4B protein

Catalog Number: ATGP1431

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-393aa

UniProt No.

Q9Y4P1

NCBI Accession No.

AAH00719.1

Alternative Names

Cysteine protease ATG4B, AuTL1, Autophagin-1

PRODUCT SPECIFICATION

Molecular Weight

45.3 kDa (401aa) confirmed by MALDI-TOF

Concentration

0.5mg/ml (determined by Bradford assay)

Formulation

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

Purity

> 90% 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

ATG4B, also known as cysteine protease ATG4B, is a cysteine protease required for autophagy, which cleaves the C-terminal part of either MAP1LC3, GABARAPL2 or GABARAP, allowing the liberation of form I. A subpopulation of form I is subsequently converted to a smaller form (form II). Form II, with a revealed C-terminal glycine, is considered to be the phosphatidylethanolamine (PE) -conjugated form, and has the capacity for the binding to autophagosomes. Recombinant human ATG4B protein, fused to His-tag at C-terminus, was expressed in E. coli and purified by using conventional chromatography.

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Amino acid Sequence

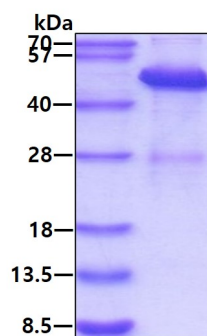
MDAATLTYDT LRFAEFEDFP ETSEPVWILG RKYSIFTEKD EILSDVASRL WFTYRKNFPA IGGTGPTSDT GWGCMLRCGQ
MIFAQALVCR HLGRDWRWTQ RKRQPDYFS VLNAFIDRKD SYYSIHQIAQ MGVGEGKSIG QWYGPNTVAQ VLKKLAVFDT
WSSLAVHIAM DNTVVMEEIR RLCRTSVPCA GATAFPADSD RHCNGFPAGA EVTNRPSWR PLVLLIPLRL GLTDINEAYV
ETLKHC FMMP QSLGVIGGKP NSAHYFIGYV GEELIYLDPH TTQPAVEPTD GCFIPDES FH CQHPPCRMSI AELDPSI AVG
FFCKTEDDFN DW CQQVKLS LLGGALPMFE LVEQQPSHLA CPDVLNLSLD SSDVERLERF FDSEDEDFEI LSL<LEHHHHH
H>

General References

Sugawara K., et al. (2005) J. Biol. Chem. 280:40058-40065
Kumanomidou T., et al. (2006) J. Mol. Biol. 355:612-618

DATA

SDS-PAGE



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