

Recombinant Human ATG4 Autophagy Related 4 Homolog B (*S. cerevisiae*), His-tagged

Cat. No. ATG4B-1921H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human ATG4B protein, fused to His-tag at C-terminus, was expressed in <i>E. coli</i> and purified by using conventional chromatography.
Species	Human
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	Liquid. 20mM Tris-HCl buffer (pH8.0) containing 20% glycerol, 1mM DTT, 0.1mM PMSF.
Molecular Weight	45.4 kDa(401aa) confirmed by MALDI-TOF
Purity	> 90% by SDS-PAGE
Concentration	0.5mg/ml (determined by Bradford assay)
Sequences of amino acids	MDAATLT YD TLRFAEFEDFP ETSEPVWILG RKYSIFTEKD EILSDVASRL WFTYRKNFPA IGGTGPTSDT GWGCMLRCGQMIFAQALVCR HLGRDWRWTQ RKRQPDSYFS VLNAFIDRKD SYYSIHQIAQ MGVGEGKSIG QWYGPNTVAQVLKKLAVFDT WSSLAVHIAM DNTVVMEEIR RLCRTSVPCA GATAFPADSD RHCNGFPAGA EVTNRPSWRPLVLLIPLRL GLTDINEAYV

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ETLKHC FMMP QSLGVIGGKP NSAHYFIGYV GEELIYLDPH
 TTQPAVEPTDGC FIPDES FH CQHPPCRMSI AELDPSIAVG FFCKTEDDFN
 DWCQQVKKLS LLGGALPMFE LVEQQPSHLACPDVLNLSLD SSDVERLERF
 FDSEDED FEI LSLLEHHHHH H

Storage

Can bestored at +4°C short term (1-2 weeks). For long term storage, aliquot andstore at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

Pathways

Regulationof autophagy

GENE INFORMATION

Gene Name

ATG4B ATG4 autophagy related 4homolog B (S. cerevisiae) [Homo sapiens]

Official Symbol

ATG4B

Synonyms

ATG4B; ATG4 autophagy related 4 homolog B(S. cerevisiae); APG4B; AUTL1; cysteine proteaseATG4B; hAPG4B; autophagin-1; APG4 autophagy 4 homolog B; AUT-like 1 cysteineendopeptidase; autophagy-related protein 4 homolog B; autophagy-relatedcysteine endopeptidase 1; EC 3.4.22.-; APG4 autophagy 4 homolog B (S.cerevisiae); DKFZp586D1822;KIAA0943

Gene ID

23192

mRNA Refseq

NM_013325

Protein Refseq

NP_037457

MIM

611338

UniProt ID

Q9Y4P1

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Chromosome Location	2q37.3
Function	cysteine-type peptidase activity; peptidase activity; protein binding
PDB rendering based on 2cy7.	