

Recombinant Human ATG4A, His-tagged

Cat. No. ATG4A-36H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human Cysteine Protease ATG4A/ATG4A is produced with our E. coli expression system. The target protein is expressed with sequence (Met1-Val398) of Human ATG4A fused with a 6His tag at the N-terminus.
Species	Human
Source	E.coli
ProteinLength	1-398 a.a.
Description	Cysteine Protease ATG4A (ATG4A) is a cytoplasmic protein that belongs to the peptidase C54 family. ATG4A is widely expressed in many tissues at a low level, but the highest expression is observed in skeletal muscle and brain. ATG4A is a cysteine protease required for autophagy; it cleaves the C-terminal part of MAP1LC3, GABARAPL2 or GABARAP. ATG4A is inhibited by N-ethylmaleimide. It is suggested that ATG4A has a significant role in suppressing various cancers.
Form	Supplied as a 0.2 µM filtered solution of PBS, pH 7.4
AA Sequence	MGSSHHHHHSSGLVPRGSHMESVLISKYEDQITIFTDYLEEYPDTDELWILGKQHL LKTEKSKL LSDISARLWFTYRRKFSPIGGTGPSSDAGWGCMLRCGQMMLAQUALICR HLGRDWSWEKQKEQPK E YQRILQCFLDRKDCCYSIHQMAQMVGEGKSIGEWFG PNTVAQVLKKLALFDEWNSLAVYVSM DN TVVIEDIKKMCRVPLPLSADTAGDRPPDSL TASNQSKGTSAYCSAWKPLLLIVPLRLGINQINPVY VDAFKECFKMPQSLGALGGKP NNAYYFIGFLGDELIFLDPHTTQTFVDTEENGTVNDQTFHCLQS PQRMNILNLDPSV

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ALGFFCKEEKDFDNWCSLVQKEILKENLRMFELVQKHPSHWPPFVPPAKPEV TTTG
AEFIDSTEQLEEFDFLEEDFEILSV

Endotoxin Less than 0.1 ng/μg (1 IEU/μg).

Purity Greater than 95% as determined by SEC-HPLC and reducing SDS-PAGE.

Storage Store at Please minimize freeze-thaw cycles.

GENE INFORMATION

Gene Name [ATG4A ATG4 autophagy related 4 homolog A \(S. cerevisiae\) \[Homo sapiens \]](#)

Official Symbol ATG4A

Synonyms ATG4A; ATG4 autophagy related 4 homolog A (S. cerevisiae); APG4 autophagy 4 homolog A (S. cerevisiae) , APG4A, AUT like 2, cysteine endopeptidase (S. cerevisiae) , AUTL2; cysteine protease ATG4A; hAPG4A; autophagin 2; autophagin-2; APG4 autophagy 4 homolog A; AUT-like 2 cysteine endopeptidase; AUT-like 2, cysteine endopeptidase; autophagy-related protein 4 homolog A; autophagy-related cysteine endopeptidase 2; APG4A; AUTL2;

Gene ID [115201](#)

mRNA Refseq [NM_052936](#)

Protein Refseq [NP_443168](#)

MIM [300663](#)

UniProt ID [Q8WYN0](#)

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Chromosome Location	Xq22.1-q22.3
Pathway	Regulation of autophagy, organism-specific biosystem; Regulation of autophagy, conserved biosystem;
Function	cysteine-type peptidase activity; peptidase activity;

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