

## Recombinant Human ATG4A, His-tagged

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

### SPECIFICATION

<b>Product Overview</b>	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.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	1-398 a.a.
<b>Description</b>	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.
<b>Form</b>	Supplied as a 0.2 μM filtered solution of PBS, pH 7.4
<b>AA Sequence</b>	MGSSHHHHHSSGLVPRGSHMESVLSKYEDQITIFTDYLEEYPDTDELVWILGKQHL LKTEKSKL LSDISARLWFTYRRKFSPIGGTGPSSDAGWGCMLRCGQMMLAQALICR HLGRDWSWEKQKEQPKE YQRILQCFLDRKDCCYSIHQMAQMVGEGKSIGEWFG PNTVAQVLKLLALFDEWNSLAVYVSM DN TVVIEDIKKMCRVPLPLSADTAGDRPPDSL TASNQSKGTSAYCSAWKPLLLIVPLRLGINQINPVY VDAFKECFKMPQSLGALGGKP NNAYYFIGFLGDELIFLDPHTTQTFVDTEENGTVNDQTFHCLQS PQRMNILNLDPSV

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ALGFFCKEEKDFDNWCSLVQKEILKENLRMFELVQKHPSHWPPFVPPAKPEV TTTG  
AEFIDSTEQLEEFDLEEDFEILSV

**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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