

Recombinant Human ATG5, His-tagged

Cat. No. ATG5-3425H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human ATG5 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Species	Human
Source	E.coli
Description	Autophagy protein 5, also known as ATG5, belongs to the autophagy-related (ATG) genes family. Autophagy is a catabolic process for the autophagosomic-lysosomal degradation of bulk cytoplasmic contents. ATG5 protein is required for autophagy. It conjugates to ATG12 and associates with isolation membrane to form autophagosomes. ATG5 also plays an important role in the apoptotic process. Its expression is a relatively late event in the apoptotic process, occurring downstream of caspase activity.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 40% glycerol, 0.2M NaCl
Molecular Weight	34.6 kDa (295aa), confirmed by MALDI-TOF
Purity	> 85% by SDS - PAGE
Concentration	0.25 mg/ml (determined by Bradford assay)
Sequences of amino	MGSSHHHHHH SSGLVPRGSH MTDDKDVL RD VWFGRIPTCF TLYQDEITER

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acids

EAEPYYLLLPVSYLTLVTD KVKKHFQKVM RQEDISEIWF EYEGTPLKWH
 YPIGLLDLL ASSSALPWNITVHFKSFPEK DLLHCPSKDA IEAHFMSCMK
 EADALKHKSQ VINEMQKKDH KQLWMGLQND RFDQFWAINR KLMEYPAEEN
 GFRYIPFRIY QTTTERPFIQ KLFRPVAADG QLHTLGDLLKEVCPSAIDPE
 DGEKKNQVMI HGIEPMLETP LQWLSEHLSY PDNFLHISII PQPTD

Storage

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

GENE INFORMATION

Gene Name [ATG5 ATG5 autophagy related 5 homolog \(S. cerevisiae\) \[Homo sapiens \]](#)

Synonyms

ATG5; ATG5 autophagy related 5 homolog (S. cerevisiae); ASP; APG5L; hAPG5; APG5-LIKE; APG5 (autophagy 5, S. cerevisiae)-like; APG5 autophagy 5-like (S. cerevisiae); Autophagy protein 5; APG5-like Apoptosis-specific protein; OTTHUMP0000 0017823; OTTHUMP00000017824; OTTHUM P00000040507; apoptosis specific protein

Gene ID [9474](#)

mRNA Refseq [NM_004849](#)

Protein Refseq [NP_004840](#)

MIM [604261](#)

UniProt ID [Q9H1Y0](#)

Chromosome Location

6q21

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Pathway	RIG-I-like receptor signaling pathway; Regulation of autophagy
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Function	protein binding
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