

Recombinant Human ATG3, His-tagged

Cat. No. ATG3-222H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	ATG3, 1-314aa, Human, His tag, E.coli
Species	Human
Source	E.coli
ProteinLength	1-314aa
Description	Ubiquitin-like-conjugating enzyme ATG3 isoform 1, also known as ATG3, is an E2-like enzyme that localizes to the cytoplasm and is expressed in a variety of tissues with predominant levels found in kidney, placenta, liver, heart and skeletal muscle. ATG3 catalyzes the formation of the Atg8-phosphatidylethanolamine (ATG-PE) conjugate, a reaction that is essential for autophagy. Recombinant human ATG3 protien, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.1M NaCl, 10% glycerol
Molecular Mass	38.3 kDa (337aa) confirmed by MALDI-TOF
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSMQNVINT VKGKALEVAE YLTPVLKESK FKETGVITPE EFVAAGDHLV HHCPTWQWAT GEELKVKAYL PTGKQFLVTK NVPCYKRCKQ MEYSDELEAI IEEDDGDGGW VDTYHNTGIT GITEAVKEIT LENKDNIRLQ DCSALCEEEE DEDEGEAADM EEEYESGLLE TDEATLDTRK IVEACKAKTD AGGEDAILQT RTYDLYITYD KYYQTPRLWL FGYDEQRQPL

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TVEHMYEDIS QDHSVKKTVTI ENHPLPPPP MCSVHPCRHA EVMKKIETV
AEGGGELGVH MYLLIFLKFV QAVIPTIEYD YTRHFTM

Purity >85% by SDS - PAGE

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

Concentration 0.5 mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name [ATG3](#) [ATG3 autophagy related 3 homolog \(S. cerevisiae\) \[Homo sapiens \]](#)

Official Symbol [ATG3](#)

Synonyms [ATG3](#); [ATG3 autophagy related 3 homolog \(S. cerevisiae\)](#); [APG3 autophagy 3 like \(S. cerevisiae\)](#) , [APG3L](#); [ubiquitin-like-conjugating enzyme ATG3](#); [DKFZp564M1178](#); [FLJ22125](#); [MGC15201](#); [PC3 96](#); [hApg3](#); [2610016C12Rik](#); [autophagy-related protein 3](#); [APG3](#); [APG3L](#); [PC3-96](#); [APG3-LIKE](#);

Gene ID [64422](#)

mRNA Refseq [NM_022488](#)

Protein Refseq [NP_071933](#)

MIM [609606](#)

UniProt ID [Q9NT62](#)

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Chromosome Location	3q13.2
Pathway	Regulation of autophagy, organism-specific biosystem; Regulation of autophagy, conserved biosystem; Senescence and Autophagy, organism-specific biosystem;
Function	Atg12 ligase activity; Atg8 ligase activity; enzyme binding; ligase activity; protein binding; small conjugating protein ligase activity;

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