

Recombinant Human ATG3, His-tagged

Cat. No. ATG3-35H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human Ubiquitin-Like-Conjugating Enzyme ATG3/ATG3 is produced by our E. coli expression system. The target protein is expressed with sequence (Met1-His287) of Human ATG3 fused with a 6His tag at the C-terminus.
Species	Human
Source	E.coli
Description	Ubiquitin-Like-Conjugating Enzyme ATG3 (ATG3) is widely expressed and has highly levels in heart, skeletal muscle, kidney, liver and placenta. ATG3 as a E2-like enzyme, involves in autophagy and mitochondrial homeostasis. ATG3 catalyzes the conjugation of ATG8-like proteins to PE which is essential for autophagy. As an autocatalytic E2-like enzyme, ATG3 also can catalyzes the conjugation of ATG12 to itself which paly a role in mitochondrial homeostasis but not in autophagy.
Form	Supplied as a 0.2 µM filtered solution of 20mM PB, 150mM NaCl, pH 7.2
AA Sequence	MASMTGGQQMGRGSMQNVINTVKGKALEVAEYLTPVLKESKFKETGVITPEEFVAA GDHLVHHCP TWQWATGEELKVKAYLPTGKQFLVTKNVPCYKRCKQMEYSDELEAI EEDDGDGGWVDTYHNTGI TGITEAVKEITLENKDNIRLQDCSALCEEEDEDEGEAA DMEEYEESGLLETDEATLDRKIVEA CKAKT DAGGEDAILQTRTYDLITYDKYYQT PRLWLFGYDEQRQPLTVEHMYEDISQDHVKKTVT IENHPLPPPPMCSVHPCRHA EVMKKIETVAEGGGELGVHLEHHHHHHH
Endotoxin	Less than 0.1

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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 [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](#)

Chromosome Location [3q13.2](#)

Pathway [Regulation of autophagy, organism-specific biosystem](#); [Regulation of autophagy](#),

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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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