

Recombinant Human ATG10 Autophagy Related 10 Homolog (*S. cerevisiae*), His-tagged

Cat. No. ATG10-7174H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human ATG10 protein, fused to His-tag at N-terminus, was expressed in <i>E. coli</i> and purified by using conventional chromatography techniques. MW: 27.7 kDa.
Species	Human
Source	<i>E. coli</i>
ProteinLength	1-220aa
Description	Ubiquitin-like-conjugating enzyme ATG10, also known as ATG10, is a 220 amino acid protein that localizes to the cytoplasm and plays a role in autophagy, specifically functioning as an E2-like enzyme that provides Atg recognition sites during autophagosome synthesis. ATG10 has also been shown to interact with ATG12 in human embryonic kidney cells in the presence of ATG7. Deletion of the p arm of chromosome 5 leads to Cri du chat syndrome, while deletion of the q arm or of chromosome 5 altogether is common in therapy-related acute myelogenous leukemias and myelodysplastic syndrome.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.1M NaCl, 10% glycerol, 1mM DTT.
Molecular Mass	27.7 kDa (243aa) confirmed by MALDI-TOF

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AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSMEDEFI GEKTFQRYCA EFIKHSQQIG DSWEWRPSKD CSDGYMCKIH FQIKNGSVMS HLGASTHGQT CLPMEEAFEL PLDDCEVIET AAASEVIKYE YHVLYSCSYQ VPVLYFRASF LDGRPLTLKD IWEGVHECYK MRLQGPWDT ITQQEHPILG QPFFVLHPCK TNEFMTPVLK NSQKINKNVN YITSWLSIVG PIVGLNLPLS YAKATSQDER NVP
Purity	>95% by SDS - PAGE
Applications	SDS-PAGE
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.
Concentration	1 mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name	ATG10 ATG10 autophagy related 10 homolog (S. cerevisiae) [Homo sapiens]
Official Symbol	ATG10
Synonyms	ATG10; ATG10 autophagy related 10 homolog (S. cerevisiae); APG10 autophagy 10 like (S. cerevisiae) , APG10L; ubiquitin-like-conjugating enzyme ATG10; DKFZP586I0418; FLJ13954; autophagy-related protein 10; APG10; APG10L; pp12616; DKFZp586I0418;
Gene ID	83734
mRNA Refseq	NM_001131028
Protein Refseq	NP_001124500

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MIM	610800
UniProt ID	Q9H0Y0
Chromosome Location	5q14.1
Pathway	Senescence and Autophagy, organism-specific biosystem;
Function	Atg12 ligase activity; ligase activity;

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