

# Recombinant human ATG10 protein

Catalog Number: ATGP1742

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-220aa

### UniProt No.

Q9H0Y0

### NCBI Accession No.

NP\_113670

### Alternative Names

ubiquitin-like-conjugating enzyme ATG10, APG10, APG10L, pp12616

## PRODUCT SPECIFICATION

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### Molecular Weight

27.7 kDa (243aa) confirmed by MALDI-TOF

### Concentration

1mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.1M NaCl, 10% glycerol, 1mM DTT

### Purity

> 95% by SDS-PAGE

### Tag

His-Tag

### Application

SDS-PAGE

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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### 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. Recombinant human ATG10 protein, fused to His-tag at

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N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

## Amino acid Sequence

MGSSHHHHHH SSGLVPRGSH MGSMEDEFI GEKTFQRYCA EFIKHSQQIG DSWEWRPSKD CSDGYMCKIH FQIKNGSVMS  
HLGASTHGQT CLPMEEAFEL PLDDCEVIET AAASEVIKYE YHVLYSCSYQ VPVLYFRASF LDGRPLTLKD IWEGVHECYK  
MRL LQGPWDT ITQQEHPILG QPFFVLHPCK TNEFMTPVLK NSQKINKNVN YITSWLSIVG PVVGLNLPLS YAKATSQDER NVP

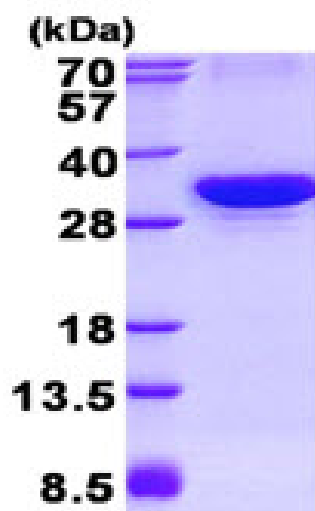
## General References

Nemoto T., et al. (2003) J Bio Chem 278:39517-39526

Shin J H., et al. (2009) Mol Cells. 27: 37-74.

## DATA

### SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3ug)