

# Recombinant human ATG3 protein

Catalog Number: ATGP2715

## PRODUCT INFORMATION

### Expression system

E.coli

### Domain

1-314aa

### UniProt No.

Q9NT62

### NCBI Accession No.

NP\_071933

### Alternative Names

ubiquitin-like-conjugating enzyme ATG3 isoform 1, APG3, APG3-LIKE, APG3L, PC3-96

## PRODUCT SPECIFICATION

### Molecular Weight

38.3 kDa (337aa) confirmed by MALDI-TOF

### Concentration

0.5mg/ml (determined by Bradford assay)

### Formulation

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

### Purity

> 85% 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

### 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.

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### Amino acid 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 TVEHMYEDIS QDHVKKTVTI ENHPLPPPP MCSVHPCRHA EVMKKIETV AEGGGELGVH MYLLIFLK FV  
QAVIPTIEYD YTRHFTM

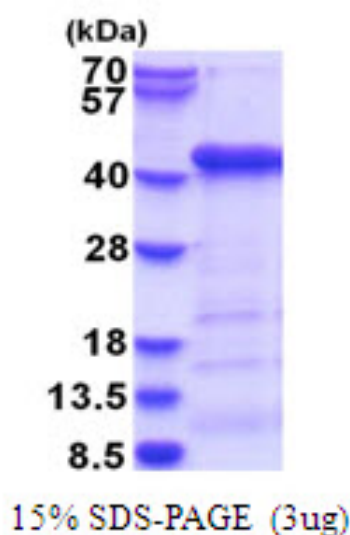
### General References

Tanida I., et al. (2002) J Biol Chem. 277: 13739-13744.

Yamada Y., et al. (2007) J Biol Chem. 282: 8036-8043

## DATA

### SDS-PAGE



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