

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 protein, 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 MYLLIFLKFV
QAVIPTIEYD YTRHFTM

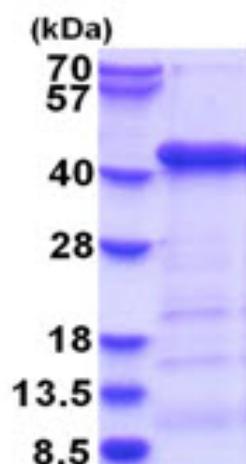
General References

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.

15% SDS-PAGE (3ug)