Recombinant human ATG5 protein

Catalog Number: ATGP0903

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-275aa

UniProt No.
Q9H1Y0

NCBI Accession No.
NP_004840

Alternative Names
Autophagy protein 5, APG5, APG5-LIKE, APG5L, ASP, hAPG5

PRODUCT SPECIFICATION

Molecular Weight
34.6 kDa (295aa) confirmed by MALDI-TOF

Concentration
0.25mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 40% glycerol, 0.2M NaCl

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
Autophagy protein 5, also known as ATG5, belongs to the autophagy-related (ATG) genes family. Autophagy is a catabolic process for the autophagosomic-lysosomal degradation of bulk cytoplasmic contents. ATG5 protein is required for autophagy. It conjugates to ATG12 and associates with isolation membrane to form autophagosomes. ATG5 also plays an important role in the apoptotic process. Its expression is a relatively late event in the apoptotic process, occurring downstream of caspase activity. Recombinant human ATG5 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography

techniques.

Amino acid Sequence

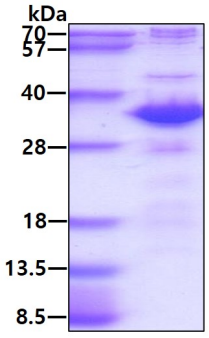
<MGSSHHHHHH SSGLVPRGSH> MTDDKDVLRD VWFGRIPTCF TLYQDEITER EAEPYYLLLPRVSYLTLVTD KVKKHFQKVM RQEDISEIWF EYEGTPLKWH YPIGLLFDLL ASSSALPWNITVHFKSFPEK DLLHCPSKDA IEAHFMSCMK EADALKHKSQ VINEMQKKDH KQLWMGLQND RFDQFWAINR KLMEYPAEEN GFRYIPFRIY QTTTERPFIQ KLFRPVAADG QLHTLGDLLKEVCPSAIDPE DGEKKNQVMI HGIEPMLETP LQWLSEHLSY PDNFLHISII PQPTD

General References

Mizushima N., et al. (1998) Nature. 395:395-8.
Tanida I., et al. (1999) Mol Biol Cell. 10:1367-79.

DATA

SDS-PAGE



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