Recombinant human ATG10 protein

Catalog Number: ATGP1742

PRODUCT INFORMATION

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

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

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

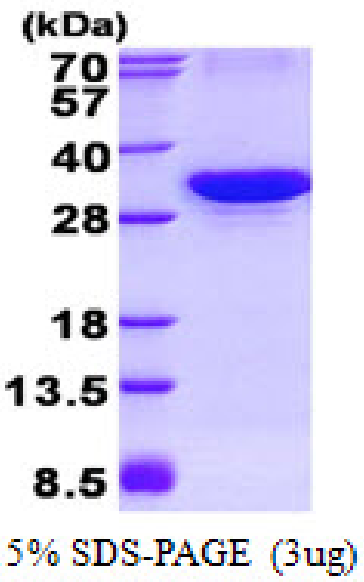
MGSSHHHHHH SSGLVPRGSH MGSMEEDEFI GEKTFQRYCA EFIKHSQQIG DSWEWRPSKD CSDGYMCKIH FQIKNGSVMS HLGASTHGQT CLPMEEAFEL PLDDCEVIET AAASEVIKYE YHVLYSCSYQ VPVLYFRASF LDGRPLTLKD IWEGVHECYK MRLLQGPWDT ITQQEHPILG QPFFVLHPCK TNEFMTPVLK NSQKINKNVN YITSWLSIVG PVVGLNLPLS YAKATSQDER NVP

General References

Nemoto T., et al. (2003) J Bio Chem278:39517-39526
Shin J H., et al. (2009) Mol Cells. 27: 37-74.

DATA

SDS-PAGE



15% SDS-PAGE (3ug)

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