

AR50566PU-N

Human APG10L / ATG10 (1-220, His-tag) - Purified

Alternate names:

Autophagy-related protein 10

Quantity:

0.5 mg

Concentration:

1 mg/ml (determined by Bradford assay)

Background:

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.

Uniprot ID:

[Q9H0Y0](#)

NCBI:

[NP_113670](#)

GeneID:

[83734](#)

Species:

Human

Source:

E. coli

Format:

State: Liquid purified protein

Purity: >95% by SDS - PAGE

Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 0.1M NaCl, 10% glycerol, 1mM DTT

Description:

Recombinant human ATG10 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.

AA Sequence:

MGSSHHHHH SSGLVPRGSH MGSMEDEFI GEKTFQRYCA EFIKHSQQIG DSWEWRPSKD
CSDGYMCKIH FQIKNGSVMS HLGASTHGQT CLPMEEAFEL PLDDCEVIET AAASEVIKYE
YHVLYSCSYQ VPLYFRASF LDGRPLTLKD IWEGVHECYK MRLQLQPWDIT ITQEHPIGL
QPFFVLHPCK TNEFMTPLVK NSQKINKNVN YITSWLSIVG PVVGLNLPLS YAKATSQDER NVP

Molecular weight: 27.7 kDa (243aa) confirmed by MALDI-TOF

Storage:

Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer.
Avoid repeated freezing and thawing.
Shelf life: one year from despatch.

General Readings:

Nemoto T., et al. (2003) J Bio Chem 278:39517-39526 Shin J H., et al. (2009) Mol Cells. 27: 37-74.

Pictures:

