

Datasheet for ABIN7564313
ATG4C Protein (AA 1-458) (His tag)



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Overview

Quantity:	1 mg
Target:	ATG4C
Protein Characteristics:	AA 1-458
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ATG4C protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant Atg4c Protein expressed in mammalian cells.
Sequence:	MEASGTDEVD KLKTKFISAW NNMKYSWVLK TKTYFSRNSP VLLLGKCYHF KYEDSKMLP ARSGCAIEDH VIAGNVEEFR KDFISRIWLT YREEFPQIEA SALTTCGWG CTLRTGQMLL AQGLLHFLG RAWTWPDALH IENADSDSWT SNTVKKFTAS FEASLSGDRE LRTPAVSLKE TSGKCPDDHA VRNEAYHRKI ISWFGDSPVA VFGLHRLIEF GKKS GKKAGD WYGPAVVAHI LRKAVEEARH PDLQGLTIYV AQDCTVYNSD VIDKQTDSVT AGDARDKAVI ILVPVRLGGE RTNTDYLEFV KGVLSLEYCV GIIGGKPKQS YYFAGFQDDS LIYMDPHYCQ SFVDVSIKDF PLETFHCPSK KMSFRKMDP SCTIGFYCRN VQDFERASEE ITKMLKISSK EKYP LFTFVN GHSKDFDFTS TAASEEDLFS EDERKNFKRF STEEFVLL Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.
Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different

Product Details

isoform, please contact us regarding an individual offer.

Characteristics:

Key Benefits:

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

Purity:

> 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)

Grade:

custom-made

Target Details

Target:

ATG4C

Alternative Name:

Atg4c ([ATG4C Products](#))

Background:

Cysteine protease ATG4C (EC 3.4.22.-) (AUT-like 3 cysteine endopeptidase) (Autophagy-related cysteine endopeptidase 3) (Autophagin-3) (Autophagy-related protein 4 homolog C),FUNCTION: Cysteine protease that plays a key role in autophagy by mediating both proteolytic activation and delipidation of ATG8 family proteins. The protease activity is required for proteolytic activation of ATG8 family proteins: cleaves the C-terminal amino acid of ATG8 proteins MAP1LC3 and GABARAPL2, to reveal a C-terminal glycine (By similarity). Exposure of the glycine at the C-terminus is essential for ATG8 proteins conjugation to phosphatidylethanolamine (PE) and insertion to membranes, which is necessary for autophagy (By similarity). In addition to the protease activity, also mediates delipidation of ATG8 family proteins. Catalyzes delipidation of PE-conjugated forms of ATG8 proteins during macroautophagy. Compared to ATG4B, the major protein for proteolytic activation of ATG8 proteins, shows weaker ability to cleave the C-terminal amino acid of ATG8 proteins, while it

Target Details

displays stronger delipidation activity. In contrast to other members of the family, weakly or not involved in phagophore growth during mitophagy (By similarity).
{ECO:0000250|UniProtKB:Q96DT6, ECO:0000250|UniProtKB:Q9Y4P1}.

Molecular Weight: 52.1 kDa

UniProt: [Q811C2](#)

Pathways: [Autophagy](#)

Application Details

Application Notes: We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: The buffer composition is at the discretion of the manufacturer.

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: 12 months