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Datasheet for ABIN7552400 **ATG12 Protein (AA 1-140) (His tag)**

Overview

Quantity:	1 mg
Target:	ATG12
Protein Characteristics:	AA 1-140
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ATG12 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant ATG12 Protein expressed in mammalian cells.
Sequence:	MAEEPQSVLQ LPTSIAAGGE GLTDVSPETT TPEPPSSAAV SPGTEEPAGD TKKKIDILLK AVGDTPIMKT KKWAVERTRT IQGLIDFIKK FLKLVASEQL FIYVNQSFAP SPDQEVGTLY ECFGSDGKLV LHYCKSQAWG 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 isoform, please contact us regarding an individual offer.
Characteristics:	Key Benefits: <ul style="list-style-type: none">• 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.

Product Details

- 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:	ATG12
Alternative Name:	ATG12 (ATG12 Products)
Background:	Ubiquitin-like protein ATG12 (Autophagy-related protein 12) (APG12-like),FUNCTION: Ubiquitin-like protein involved in autophagy vesicles formation. Conjugation with ATG5 through a ubiquitin-like conjugating system involving also ATG7 as an E1-like activating enzyme and ATG10 as an E2-like conjugating enzyme, is essential for its function. The ATG12-ATG5 conjugate acts as an E3-like enzyme which is required for lipidation of ATG8 family proteins and their association to the vesicle membranes. {ECO:0000269 PubMed:12207896, ECO:0000269 PubMed:17999726, ECO:0000269 PubMed:19074260, ECO:0000269 PubMed:19164948, ECO:0000269 PubMed:23202584},. FUNCTION: (Microbial infection) May act as a proviral factor. In association with ATG5, negatively regulates the innate antiviral immune response by impairing the type I IFN production pathway upon vesicular stomatitis virus (VSV) infection (PubMed:17709747). Required for the translation of incoming hepatitis C virus (HCV) RNA and, thereby, for the initiation of HCV replication, but not required once infection is established (PubMed:19666601). {ECO:0000269 PubMed:17709747, ECO:0000269 PubMed:19666601}.
Molecular Weight:	15.1 kDa
UniProt:	O94817

Target Details

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