

Datasheet for ABIN7560103  
**ATG13 Protein (AA 1-516) (His tag)**



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## Overview

Quantity:	1 mg
Target:	ATG13
Protein Characteristics:	AA 1-516
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ATG13 protein is labelled with His tag.

## Product Details

Purpose:	Custom-made recombinant Atg13 Protein expressed in mammalian cells.
Sequence:	<p>METELSSQDR KDLDKFIKFF ALKTVQVIVQ ARLGEKICTR SSSSPTGSDW FNLAIKDIPE VTHEAKKALS GQLPAVGRSM CVEISLKTSE GDSMELEIWC LEMNEKCDKE IKVSYTVYNR LSLLLKSLLA ITRVTPAYRL SRKQGHEYVI LYRIYFGEVQ LNGLGEGFQT VRVGTGTPV GTLTLSCAYR INLAFMSTRQ FERTPPIMGI IIDHFVDRPY PSSSPMHPCN YRTAEDAGVA YPSVEDSQEV CTTSFSTSP SQLSSSRLSY QPAVLGLGSA DLAYPVVFTA GLNTTHAHQL MVPGKEGGVT LAPSHPTHGA QADPERLVMH MPSDGTTHCAA TPSSSEDTET VSNSSEGRAS PHDILETIFV RKGAFVNKP INQVTVTS LD IPFAMFAPKN LELEDAPMV NPPEPETTS PLHGSLHSDG SSGGSGGSTH DDFVMIDFKP AFSKDDILPM DLGTFYREFQ NPPQLSSLSI DFGAQSMAED LDSLPEKLAV HEKNVREFDA FVETLQ <b>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.</b></p>

## Product Details

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**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.

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**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.

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

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**Grade:** custom-made

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## Target Details

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**Target:** ATG13

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**Alternative Name:** [Atg13 \(ATG13 Products\)](#)

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**Background:** Autophagy-related protein 13,FUNCTION: Autophagy factor required for autophagosome formation and mitophagy. Target of the TOR kinase signaling pathway that regulates autophagy through the control of the phosphorylation status of ATG13 and ULK1, and the regulation of the ATG13-ULK1-RB1CC1 complex. Through its regulation of ULK1 activity, plays a role in the regulation of the kinase activity of mTORC1 and cell proliferation. {ECO:0000269|PubMed:19258318}.

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**Molecular Weight:** 56.4 kDa

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**UniProt:** [Q91Y11](#)

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**Pathways:** [PI3K-Akt Signaling, Autophagy](#)

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## Application Details

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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.

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Restrictions: For Research Use only

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## Handling

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Format: Liquid

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

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Handling Advice: Avoid repeated freeze-thaw cycles.

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Storage: -80 °C

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Storage Comment: Store at -80°C.

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Expiry Date: 12 months

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