

Recombinant Human ATG7 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. ATG7-5180H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	ATG7 MS Standard C13 and N15-labeled recombinant protein (NP_006386) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	This gene encodes an E1-like activating enzyme that is essential for autophagy and cytoplasmic to vacuole transport. The encoded protein is also thought to modulate p53-dependent cell cycle pathways during prolonged metabolic stress. It has been associated with multiple functions, including axon membrane trafficking, axonal homeostasis, mitophagy, adipose differentiation, and hematopoietic stem cell maintenance. Alternative splicing results in multiple transcript variants.
Molecular Mass	77.8 kDa
AA Sequence	MAAATGDPGLSKLQFAPFSSALDVGFWHELTQKKLNEYRLDEAPKDIKGYYYNGDS AGLPARLTLEFSADFMSAPTPARCCPAIGTLYNTNTLESFKTADKKLLLEQAANEIWE SIKSGTALENPVLLNKFLLLTADLKKYHFYYWFCYPALCLPESLPLIQGPVGLDQRF SLKQIEALECAYDNLCQTEGVTALPYFLIKYDENMVLVSLKHYSDFFQGQRTKITIGV YDPCNLAQYPGWPLRNFLVLAHRWSSSFQSVEVVCFRDRTMQGARDVAHSIIFEV KLPMAFSPDCPKAVGWKNQKGGMGPRMVNLSECMDPKRLAESSVDLNLKLMC WRLVPTLDLDKVVSVKCLLLGAGTLGCNVARTLMGWGVRHITFVDNAKISYSNPVR

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

QPLYEFEDCLGGGKPKALAAADRLQKIFPGVNARGFNMSIPMPGHPVNFSSVTLEQ
ARRDVEQLEQLIESHDVVFLMDTRESRWLPAVIAASKRKLVINAAALGFDTFVVMRH
GLKKPKQQGAGDLCPNHPVASADLLGSSLFANIPGYKLGCFNDVVAPGDSTRDR
TLDQQCTVSRPGLAVIAGALAVELMVSVLQHPEGGYAIASSSDDRMNEPPTSLGLVP
HQIRGFLSRFDNVLPVSLAFDKCTACSSKVLDQYEREGFNFLAKVFNSSHSFLEDLT
GLTLLHQETQAAEIWDMSDDEITRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name [ATG7 autophagy related 7 \[Homo sapiens \(human\) \]](#)

Official Symbol [ATG7](#)

Synonyms ATG7; ATG7 autophagy related 7 homolog (S. cerevisiae); APG7 autophagy 7 like (S. cerevisiae), APG7L; ubiquitin-like modifier-activating enzyme ATG7; DKFZp434N0735; GSA7; hAGP7; autophagy-related protein 7; ATG12-activating enzyme E1 ATG7; ubiquitin activating enzyme E1-like protein; ubiquitin-activating enzyme E1-like protein; APG7L; APG7-LIKE;

Gene ID [10533](#)

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

mRNA Refseq NM_006395

Protein Refseq NP_006386

MIM 608760

UniProt ID O95352

SDS-PAGE



Tel: 1-631-559-9269 1-516-512-3133

Email: info@creative-biomart.com Fax: 1-631-938-8127

45-1 Ramsey Road, Shirley, NY 11967, USA