

Ubiquitin-like modifier-activating enzyme ATG7 (ATG7) Recombinant Protein | ATG7 recombinant protein

Recombinant Human Ubiquitin-like modifieractivating enzyme ATG7 (ATG7) Protein

CATALOG # AAA55978	HOST E. coli	REACTIVITY Human
------------------------------	------------------------	----------------------------

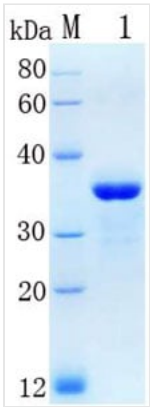
PRODUCT SYNONYMS

Ubiquitin-like modifier-activating enzyme ATG7 (ATG7); Recombinant Human Ubiquitin-like modifieractivating enzyme ATG7 (ATG7) Protein; APG7L; GSA7; ATG12-activating enzyme E1 ATG7; Ubiquitin-activating enzyme E1-like protein.; ATG7 recombinant protein

PRODUCT SPECIFICATIONS

Host	E. coli
Reactivity	Human
Purity/Purification	> 90 % as determined by SDS-PAGE.
Form/Format	PBS (58 mM Na ₂ HPO ₄ , 17 mM NaH ₂ PO ₄ , 68 mM NaCl, 5% trehalose, pH 7.4) added with 300 mM Imidazole and 15% glycerol.
Concentration	0.4 mg/mL (varies by lot)
Sequence Positions	293-563
Sequence	AFSPDCPKAV GWEKNQKGGM GPRMVNLSEC MDPKRLAESS VDLNLKLMCW RLVPTLDLDK VSVKCLLLG AGTLGCNVAR TLMGWGVRHI TFVDNAKISY SNPVRQPLYE FEDCLGGGKP KALAAADRLQ KIFPGVNARG FNMSIPMPGH PVNFSSVTLE QARRDVEQLE QLIESHDVVF LLMDTRESRW LPAVIAASKR KLVINAALGF DTFVVMRHGL KKPQKQGAGD LCPNHPVASA DLLGSSLFAN IPGYKLGCF C3NDVVAPGD ST
Species	Human
Source	Human
Endotoxin level	Please contact us for more information.
Protein Residues	with N-terminal 6* His-tag.
Usage	ATG7 Protein - Centrifuge the standard vial at 6000-10000rpm for 30s.
Preparation and Storage	Storage: Store it under sterile conditions at -20°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage. **Avoid repeated freeze-thaw cycles.** Stability: The recombinant protein is stable for up to 12 months from date of receipt at -80°C.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for ATG7 recombinant protein	ATG7 was identified based on homology to Pichia pastoris GSA7 and Saccharomyces cerevisiae APG7. In the yeast, the protein appears to be required for fusion of peroxisomal and vacuolar membranes. The protein shows homology to the ATP-binding and catalytic sites of the E1 ubiquitin activating enzymes. The deduced 703-amino acid protein contains a central putative E1-like ATP-binding site (GxGxxG), conserved charged amino acids flanking the GxGxxG motif, and a putative E1 active site with a conserved catalytic cysteine. APG7L shares similarity with the E1 enzymes UBA2 and UBA3 (UBE1C), and it shares 38% identity with yeast Apg7. EST database analysis indicated that APG7L is expressed by many diverse tissues.
--	---

NCBI AND UNIPROT INFORMATION

NCBI GI #	222144229
NCBI GeneID	10533
NCBI Accession #	NP_001138384.1
NCBI GenBank Nucleotide #	NM_001144912.1
UniProt Accession #	O95352; Q7L8L0; Q9BWP2; Q9UFH4; B4E170; E9PB95
Molecular Weight	Predicted MW: 36 kDa Observed MW: 36 kDa
NCBI Official Full Name	ubiquitin-like modifier-activating enzyme ATG7 isoform c
NCBI Official Synonym Full Names	autophagy related 7
NCBI Official Symbol	ATG7
NCBI Official Synonym Symbols	GSA7; APG7L; APG7-LIKE
NCBI Protein Information	ubiquitin-like modifier-activating enzyme ATG7
UniProt Protein Name	Ubiquitin-like modifier-activating enzyme ATG7
UniProt Gene Name	ATG7
UniProt Synonym Gene Names	APG7L; APG7-like; hAGP7

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.