Active Recombinant Human ATG7 Protein, His-tagged

Cat. No. ATG7-1076H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human ATG7 (Accession # O95352), fused with an N-terminal 6-His tag, was produced in Spodoptera frugiperda, Sf 21 (baculovirus)-derived.
Species	Human
Source	Sf21 Cells
Form	X mg/ml (X μl) in 50 mM HEPES pH 7.0, 150 mM NaCl, 2 mM TCEP, 10% glycerol
Bio-activity	Recombinant Human His6-ATG7 (Apg7) is a member of the Apg-activating (E1) enzyme family that is required for the first step of the enzymatic cascade that subsequently utilizes a Apg-conjugating (E2) enzyme and a Apg ligase (E3) to conjugate Apg to substrate proteins. Reaction conditions will need to be optimized for each specific application. We recommend an initial Recombinant Human His6-ATG7 (Apg7) concentration of 50-200 nM.
Molecular Mass	Recombinant Human ATG7, His-tagged has a calculated MW of 80 kDa.
Purity	>90%, by SDS-PAGE under reducing conditions and visualized by Colloidal Coomassie® Blue stain.
Storage	Avoid repeated freeze-thaw cycles. No activity loss was observed after storage at: In lyophilized state for 1 year (4ºC); After reconstitution under sterile conditions for 3 months (-70ºC).

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

GENE INFORMATION

Gene Name	ATG7 ATG7 autophagy related 7 homolog (S. cerevisiae) [Homo sapiens]
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
mRNA Refseq	NM_001136031
Protein Refseq	NP_001129503
MIM	608760
UniProt ID	O95352
Chromosome Location	3p25.3-p25.2

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