

# Active Recombinant Human ATG7 Protein, His-tagged

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

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Human ATG7 (Accession # O95352), fused with an N-terminal 6-His tag, was produced in Spodoptera frugiperda, Sf 21 (baculovirus)-derived.                                                                                                                                                                                                                                                                                            |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Source</b>           | Sf21 Cells                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Form</b>             | X mg/ml (X $\mu$ M) in 50 mM HEPES pH 7.0, 150 mM NaCl, 2 mM TCEP, 10% glycerol                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Bio-activity</b>     | 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. |
| <b>Molecular Mass</b>   | Recombinant Human ATG7, His-tagged has a calculated MW of 80 kDa.                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Purity</b>           | >90%, by SDS-PAGE under reducing conditions and visualized by Colloidal Coomassie® Blue stain.                                                                                                                                                                                                                                                                                                                                                  |
| <b>Storage</b>          | Avoid repeated freeze-thaw cycles. No activity loss was observed after storage at: In lyophilized state for 1 year (4°C); After reconstitution under sterile conditions for 3 months (-70°C).                                                                                                                                                                                                                                                   |

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

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

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

## GENE INFORMATION

|                            |                                                                                                                                                                                                                                                                                                                                                              |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>           | ATG7 ATG7 autophagy related 7 homolog (S. cerevisiae) [ Homo sapiens ]                                                                                                                                                                                                                                                                                       |
| <b>Official Symbol</b>     | ATG7                                                                                                                                                                                                                                                                                                                                                         |
| <b>Synonyms</b>            | 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; |
| <b>Gene ID</b>             | 10533                                                                                                                                                                                                                                                                                                                                                        |
| <b>mRNA Refseq</b>         | NM_001136031                                                                                                                                                                                                                                                                                                                                                 |
| <b>Protein Refseq</b>      | NP_001129503                                                                                                                                                                                                                                                                                                                                                 |
| <b>MIM</b>                 | 608760                                                                                                                                                                                                                                                                                                                                                       |
| <b>UniProt ID</b>          | O95352                                                                                                                                                                                                                                                                                                                                                       |
| <b>Chromosome Location</b> | 3p25.3-p25.2                                                                                                                                                                                                                                                                                                                                                 |

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