# Recombinant Human ATG4D, His-tagged

**Cat. No.** ATG4D-9977H **Lot. No.** (See product label)

## SPECIFICATION

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| **Product Overview** | Recombinant Human ATG4D protein, fused to His-tag, was expressed in E.coli and purified by Ni-sepharose. |
| **Species** | Human |
| **Source** | E.coli |
| **ProteinLength** | 123-474a.a. |
| **Description** | Autophagy is the process by which endogenous proteins and damaged organelles are destroyed intracellularly. Autophagy is postulated to be essential for cell homeostasis and cell remodeling during differentiation, metamorphosis, non-apoptotic cell death, and aging. Reduced levels of autophagy have been described in some malignant tumors, and a role for autophagy in controlling the unregulated cell growth linked to cancer has been proposed. This gene encodes a member of the autophagin protein family. The encoded protein is also designated as a member of the C-54 family of cysteine proteases. |
| **Storage** | The protein is stored in PBS buffer at -20℃. Avoid repeated freezing and thawing cycles. |
| **Storage Buffer** | 1M PBS (58mM Na2HPO4,17mM NaH2PO4, 68mM NaCl, pH8. ) added with 300mM Imidazole and 0.7% Sarcosyl, 15%glycerol. |

## GENE INFORMATION

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| **Gene Name** | ATG4D ATG4 autophagy related 4 homolog D (S. cerevisiae) [ Homo sapiens ] |
| **Official Symbol** | ATG4D |
| **Synonyms** | ATG4D; ATG4 autophagy related 4 homolog D (S. cerevisiae); APG4 autophagy 4 homolog D (S. cerevisiae) , APG4D, AUT like 4, cysteine endopeptidase (S. cerevisiae) , AUTL4; cysteine protease ATG4D; APG4 D; autophagin-4; APG4 autophagy 4 homolog D; AUT-like 4 cysteine endopeptidase; AUT-like 4, cysteine endopeptidase; autophagy-related protein 4 homolog D; cysteine protease involved in autophagy; autophagy-related cysteine endopeptidase 4; APG4D; AUTL4; APG4-D; |
| **Gene ID** | 84971 |
| **mRNA Refseq** | NM_032885 |
| **Protein Refseq** | NP_116274 |
| **MIM** | 611340 |
| **UniProt ID** | Q86TL0 |
| **Chromosome Location** | 19p13.2 |
| **Pathway** | Regulation of autophagy, organism-specific biosystem; Regulation of autophagy, conserved biosystem; |
| **Function** | cysteine-type endopeptidase activity; cysteine-type peptidase activity; peptidase activity; |

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