

Recombinant Human ATG4D, His-tagged

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

SPECIFICATION

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°C. Avoid repeated freezing and thawing cycles.
Storage Buffer	1M PBS (58mM Na ₂ HPO ₄ , 17mM NaH ₂ PO ₄ , 68mM NaCl, pH8.) added with 300mM Imidazole and 0.7% Sarcosyl, 15%glycerol.

GENE INFORMATION

 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 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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