



# Recombinant Human Cysteine protease ATG4A (ATG4A)

<b>Product Code</b>	CSB-MP845174HU
<b>Abbreviation</b>	ATG4A
<b>Storage</b>	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
<b>Uniprot No.</b>	Q8WYN0
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Purity</b>	>85% (SDS-PAGE)
<b>Sequence</b>	MESVLSKYED QITIFTDYLE EYPDTEDELVW ILGKQHLLKT EKSKLLSDIS ARLWFTYRRK FSPIGGTGPS SDAGWGCMLR CGQMMLAQAL ICRHLGRDWS WEKQKEQPKE YQRILQCFLD RKDCCYSIHQ MAQMGVGEK SIGEWFGPNT VAQVLKKLAL FDEWNSLAVY VSMDNTVVIE DIKKMCRVLP LSADTAGDRP PDSLTAASNQS KGTSAYCSAW KPLLLIVPLR LGINQINPVY VDAFKECFKM PQSLGALGGK PNNAYYFIGF LGDELIFLDP HTTQTFVDTE ENGTVNDQTF HCLQSPQRMN ILNLDPSVAL GFFCKEEKDF DNWCSLVQKE ILKENLRMFE LVQKHPSHWP PFVPPAKPEV TTTGAEFIDS TEQLEEFDLE EDFEILSV
<b>Source</b>	Mammalian cell
<b>Target Names</b>	ATG4A
<b>Protein Names</b>	Recommended name: Cysteine protease ATG4A EC= 3.4.22.- Alternative name(s): AUT-like 2 cysteine endopeptidase Autophagin-2 Autophagy-related cysteine endopeptidase 2 Autophagy-related protein 4 homolog A Short name= hAPG4
<b>Expression Region</b>	1-398
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	Tag type will be determined during the manufacturing process.
<b>Protein Length</b>	full length protein
<b>Target Details</b>	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. Transcript variants that encode distinct isoforms have been identified.

---

**Reconstitution**

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

---

**Shelf Life**

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.