



Recombinant Mouse Cysteine protease ATG4A (Atg4a)

Product Code	CSB-BP806035MO
Abbreviation	Atg4a
Storage	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.
Uniprot No.	Q8C9S8
Product Type	Recombinant Protein
Immunogen Species	Mus musculus (Mouse)
Purity	>85% (SDS-PAGE)
Sequence	MESVMSKYEN QILIFPDYLE EFPDTDELVW ILGKQHPLKT ESKLLSDIS ARLWFTYRRK FSPIGGTGPS SDAGWGCMRLR CGQMMLAQAL ICRHLGRDWN WERQKEQPKE YQRILQCFLD RKDCCYSIHQ MAQMGVGEK SIGEWFGPNT VAQVIKKLAL FDEWNSLAVY VSMDNTVVIE DIKKMCCVLP VGAADPAGDF LTASNQSRDT SVPCSAWKPL LLIVPLRLGI NQINPVYVEA FKECFKMPQS LGALGGKPNN AYYFIGFLGD ELIFLDPHTT QTFVDIEESG LVDDQTFHCL QSPQRMSILN LDPSVALGFF CKEEKDFDNW CSLVQKEILK ENLRMFELVQ KHPSHWPPFV PPAKPEVTTT GAEFIESTEIQ LEDFELEEDF EILSVG
Source	Baculovirus
Target Names	Atg4a
Protein Names	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
Expression Region	1-396
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	Tag type will be determined during the manufacturing process.
Protein Length	full length protein
Target Details	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.