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**Product Data Sheet**


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Product Name: ATG4B Human  
 Cat. No.: GP22795  
 Batch No.: 1

**Product Data**

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Cysteine protease ATG4B; AUT-like 1 cysteine endopeptidase; Autophagin-1; Autophagy-related cysteine endopeptidase 1; Autophagy-related protein 4 homolog B; hAPG4B; ATG4B; APG4B; AUTL1; KIAA0943.		
Amino Acid Sequence	MDAATLTYDT LRFAEFEDFP ETSEPVWILG RKYSIFTEKD EILSDVASRL WFTYRKNFPA IGGTGPTSDT GWGCMLRCGQ MIFAQALVCR HLGRDWRWTQ RKRQPDSYFS VLNAFIDRKD SYYSIHQIAQ MGVGEGKSIG QWYGPNTVAQ VLKKLAVFDT WSSLAVHIAM DNTVVMEEIR RLCRTSVPCA GATAFPADSD RHCNGFPAGA EVTNRSPWR PLVLLIPLRL GLTDINEAYV ETLKHCFMMP QSLGVIGGKP NSAHYFIGYV GEELIYLDPH TTQPAVEPTD GCFIPDESFH CQHPPCRMSI AELDPSI AVG FFCKTEDDFN DWCQQVKKLS LLGGALPMFE LVEQQPSHLA CPDVLNLSLD SSDVERLERF FDSEDEDFEI LSLLEHHHHH H.		
Formulation	ATG4B protein solution (0.5mg/ml) containing 20mM Tris-HCl buffer (pH8.0), 20% glycerol, 1mM DTT and 0.1mM PMSF.		

**Introduction**

Cysteine protease ATG4B (ATG4B) belongs to the autophagin protein family. Autophagy is the manner by which endogenous proteins and damaged organelles are destroyed intracellularly. Autophagy is vital for cell homeostasis and cell remodeling during differentiation, metamorphosis, non-apoptotic cell death, and aging. ATG4B is a cysteine protease necessary for autophagy, which cleaves the C-terminal part of either MAP1LC3, GABARAPL2 or GABARAP, allowing the liberation of form I. A subpopulation of form I is then transformed to a smaller form (form II). Form II, with an exposed C-terminal glycine, is deemed to be the phosphatidylethanolamine (PE)-conjugated form, and is capable of binding to autophagosomes. Reduced levels of autophagy are seen in some malignant tumors; therefore autophagy may have a role in controlling the unregulated cell growth

**Caution: Product has not been fully validated for medical applications. For research use only.**

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linked to cancer.

### Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

ATG4B Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 401 amino acids (1-393 a.a.) and having a molecular mass of 45.4kDa. ATG4B is fused to an 8 amino acid His-tag at C-terminus & purified by proprietary chromatographic techniques.

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