

# Product information

## ATG4B, 1-393aa

Human, His-tagged, Recombinant, *E.coli*

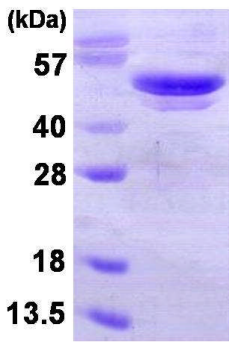
Cat. No. IBATGP01431

**Full name:** Cysteine protease ATG4B

**NCBI Accession No.:** AAH00719

**Synonyms:** AUTL1, Autophagin-1

**Description:** ATG4B, also known as cysteine protease ATG4B, is a cysteine protease required 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 subsequently converted to a smaller form (form II). Form II, with a revealed C-terminal glycine, is considered to be the phosphatidylethanolamine (PE)-conjugated form, and has the capacity for the binding to autophagosomes. Recombinant human ATG4B protein, fused to His-tag at C-terminus, was expressed in *E.coli* and purified by using conventional chromatography.

<p><b>Form:</b> Liquid. 20mM Tris-HCl buffer (pH8.0) containing 20% glycerol, 1mM DTT, 0.1mM PMSF</p> <p><b>Molecular Weight:</b> 45.4 kDa (401aa) confirmed by MALDI-TOF</p> <p><b>Purity:</b> &gt; 90% by SDS - PAGE</p> <p><b>Concentration:</b> 0.5 mg/ml (determined by Bradford assay)</p>	 <p>(kDa)</p> <p>57</p> <p>40</p> <p>28</p> <p>18</p> <p>13.5</p> <p>15% SDS-PAGE (3ug)</p>
<p><b>Sequences of amino acids:</b></p> <p>MDAATLTYDT LRFAEFEDFP ETSEPWILG RKYSIFTEKD EILSDVASRL WFTYRKNFPA IGGTGPTSOT GWGCMLRCGQ MIFAQALVCR          HLGDRWRWTQ RKRQPDYFYS VLNAFIDRKD SYYSIHQIAQ MGVGEGKSIG QWYGPNTVAQ VLKKLAVFDT WSSLAVHIAM DNTVMEEIR          RLCRTSVPCA GATAFPADSD RHCNGFPAGA EVTNRPSWR PLVLLIPLRL GLTDINEAYV ETLKHCMMMP QSLGVIGGKP NSAHYFIGYV          GEELIYLDPH TTQPAVEPTD GCFIPDESFH CQHPPCRMSI AELDPSIAVG FFCKTEDDFN DWCCQVKKLS LLGGALPMFE LVEQQPSHLA          CPDVLNLSLD SSDVERLERF FOSEDEDFEI LSLLEHHHHH H</p>	

### General references:

Sugawara K., *et al.* (2005) *J. Biol. Chem.* 280:40058-40065

Kumanomidou T., *et al.* (2006) *J. Mol. Biol.* 355:612-618

**Storage:** Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C.  
 Avoid repeated freezing and thawing cycles.

For research use only. This product is not intended or approved for human, diagnostics or veterinary use.