



# Recombinant Protein Technical Manual

## Recombinant Human ATG4C Protein (His Tag)

RPES3164

### Product Data:

**Product SKU:** RPES3164

**Size:** 10µg

**Species:** Human

**Expression host:** E. coli

**Uniprot:** Q96DT6

### Protein Information:

**Molecular Mass:** 53.6 kDa

**AP Molecular Mass:** 58 kDa

**Tag:** C-6His

**Bio-activity:**

**Purity:** > 90 % as determined by reducing SDS-PAGE.

**Endotoxin:** < 1.0 EU per µg as determined by the LAL method.

**Storage:** Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.

**Shipping:** This product is provided as liquid. It is shipped at frozen temperature with blue ice/gel packs. Upon receipt, store it immediately at < -20°C.

**Formulation:** Supplied as a 0.2 µm filtered solution of 20mM TrisHCl, 100mM NaCl, 10% Glycerol, pH 8.0.

**Reconstitution:** Please refer to the printed manual for detailed information.

**Application:**

**Synonyms:** Cysteine Protease ATG4C; AUT-Like 3 Cysteine Endopeptidase; Autophagin-3; Autophagy-Related Cysteine Endopeptidase 3; Autophagy-Related Protein 4 homolog C; ATG4C; APG4C; AUTL1; AUTL3

## Immunogen Information:

**Sequence:** Met 1-Leu458

## Background:

Cysteine Protease ATG4C (ATG4C) belongs to the peptidase C54 family. It is 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 which is considered to be the phosphatidylethanolamine (PE)-conjugated form, and has the capacity for the binding to autophagosomes. ATG4C is a cytoplasmic protein and high expressed in skeletal muscle, liver, testis and heart. ATG4C can be inhibited by N-ethylmaleimide.