

ATG14 Protein, Human, Recombinant (His & Myc)

General Information

Synonyms:	ATG14L;ATG14;Beclin 1-associated autophagy-related key regulator;Barkor;Autophagy-related protein 14-like protein (Atg14L);KIAA0831
Protein Construction:	1-492 aa
Species:	Human
Expression Host:	E. coli
Accession:	Q6ZNE5
Molecular Weight:	60.3 kDa (predicted)
AA Sequence:	MASPSGKGARALEAPGCGPRPLARDLVDSVDDAEGLYVAVERCPLCNTTRRRRLTCAKCVQSGDFVYFDGRD RERFIDKKERLSRLKSKQEEFQKEVLKAMEGKWITDQLRWKIMSCKMRIEQLKQTICKGNEEMKNSEGLLTK EKNQKLYSRAQRHQEKKEKIQRHNRKLGDLVEKKTIDLRSHYERLANLRRSHILELTSVIFPIEEVKTGVRDPAD VSSSEDSAMTSSTVSKLAEARRTTYLSGRWVCDDHNGDTSISITGPWISLPNNGDYSAYYSWVEEKTTQGP DMEQSNPAYTISAALCYATQLVNILSHILDVNLPKLCNSEFCGENLSKQKFTRAVKKNANILYLCSQHVNL DQLQPLHLRLNLMYLVSPSEHLGRSGPFEVRADLEESMEFVDPGVAGESDESGDERVSDEETDLGTDWENL PSPRFCDIPSQSVEVSQSSTQASPIASSSAGGMISSAAASVTSWFKAYTGHR

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 90% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Tris-based buffer, 50% glycerol

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

A DRUG SCREENING EXPERT

Required for both basal and inducible autophagy. Determines the localization of the autophagy-specific PI3-kinase complex PI3KC3-C1. Plays a role in autophagosome formation and MAP1LC3/LC3 conjugation to phosphatidylethanolamine. Promotes BECN1 translocation from the trans-Golgi network to autophagosomes. Enhances PI3C3 activity in a BECN1-dependent manner. Essential for the autophagy-dependent phosphorylation of BECN1. Stimulates the phosphorylation of BECN1, but suppresses the phosphorylation PI3C3 by AMPK. Binds to STX17-SNAP29 binary t-SNARE complex on autophagosomes and primes it for VAMP8 interaction to promote autophagosome-endolysosome fusion. Modulates the hepatic lipid metabolism.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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