

ATG10 Protein, Human, Recombinant (His, T7)

General Information

Synonyms:	ATG10;APG10-Like;Ubiquitin-Like-Conjugating Enzyme ATG10;Autophagy-Related Protein 10
Protein Construction:	Met1-Thr190
Species:	Human
Expression Host:	E. coli
Accession:	Q9H0Y0
Molecular Weight:	30 KDa (reducing condition)
AA Sequence:	Met1-Thr190

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:	Greater than 90% as determined by reducing SDS-PAGE. (QC verified)
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Supplied as a 0.2 μm filtered solution of 20 mM Tris-HCl, 8% Sucrose, 20% Glycerol, 0.02% Tween 80, 3 mM TCEP, pH 8.5.

Preparation and Storage

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:

Proteins are shipped with blue ice.

Protein Background

Ubiquitin-Like-Conjugating Enzyme ATG10 (ATG10) is a ubiquitous 28kDa member of the ATG10 family protein. ATG10 acts as an E2-like enzyme, catalyzes the transfer of ATG12 to ATG5 during in the initial stages of autophagosome formation. The heterodimer of ATG5 and ATG12 subsequently associates non-covalently with an ATG16 multimer to generate an antophagosome. ATG10 plays a role in the conjugation of ATG12 to ATG5 by interaction with MAP1LC3A. In addition, ATG10 can directly interact with ATG5 or ATG7.

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