



Catalog Number: PR27226

Product Type: Recombinant Protein

Source: *E. Coli*

Amino Acid Sequence: MGSSHHHHHH SGLVPRGSH MGSMEDEFI GEKTFQRYCA EFIKHSQQIG DSWEWRPSKD
CSDGYMCKIH FQIKNGSVMS HLGASTHGQT CLPMEEAFEL PLDDCEVIET AAASEVIKYE
YHVLYSCSYQ VPVLYFRASF LDGRPLTKD IWEGVHECYK MRLQGPWDT ITQQEHPILG
QPFFVLHPCK TNEFMPVLK NSQKINKNVN YITWLSIVG PVVGLNLPLS YAKATSQDER NVP

Description/Molecular Mass: Ubiquitin-like-conjugating enzyme ATG10 (ATG10) is a 220 amino acid protein which localizes to the cytoplasm and has a role in autophagy, specifically acting as an E2-like enzyme providing Atg recognition sites during autophagosome synthesis. ATG10 functions as an E2-like enzyme which catalyzes the conjugation of ATG12 to ATG5, which is required for autophagy. In addition, ATG10 interacts with ATG12 in human embryonic kidney cells in the presence of ATG7. ATG10 probably serves as an ATG5-recognition molecule. Furthermore, ATG10 has a role in adenovirus-mediated cell lysis.

ATG10 Human Recombinant produced in *E. coli* is a single polypeptide chain containing 243 amino acids (1-220) and having a molecular mass of 27.7 kDa.

ATG10 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

Purity: Greater than 95.0% as determined by:
(a) Analysis by SDS-PAGE.

Format: The ATG10 solution (1mg/1ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.1M NaCl, 1mM DTT and 10% glycerol.

Storage: 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.

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