



Catalog Number: PR27229

Product Type: Recombinant Protein

Source: *E. Coli*

Amino Acid Sequence: MGSSHHHHHH SSSLVPRGSH MTDDKDVL RD VWFGRIP TCF TLYQDEITER
EAEPYYLLLP RVSYLTLVTD KVKKHFQKVM RQEDISEIWF EYEGTPLKWH YPIGLLFDLL
ASSSALPWNITVHF KSFPEK DLLHCP SKDA IEAHFMSCMK EADALKHKSQ VINEMQK KDH
KQLWMGLQND RFDQFWAINR KLMEYPAEEN GFRYIPFRIY QT TTERPFIQ KLFRPVAADG
QLHTLGDLLKEVCPSAIDPE DGEKKNQVMI HGIEPMLETP LQWLSEHLSY PDNFLHISII PQPTD

Description/Molecular Mass: ATG5 is a member of the autophagy-related (ATG) genes family. Autophagy is a catabolic process for the autophagosomic-lysosomal degradation of bulk cytoplasmic contents. ATG5 protein is essential for autophagy. It conjugates to ATG12 and associates with isolation membrane to form autophagosomes. In addition ATG5 takes a vital part in the apoptotic process and it is expressed relatively late in the apoptotic process, downstream of caspase activity.

ATG5 produced in *E. Coli* is a single, non-glycosylated polypeptide chain containing 295 amino acids (1-275a.a.) and having a molecular mass of 34.6kDa.

ATG5 is fused to a 20 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

Purity: Greater than 85.0% as determined by:
(a) Analysis by SDS-PAGE.

Format: ATG5 at a concentration of 0.25mg/ml containing 20mM Tris-HCl, pH 8.0, 1mM DTT, 0.2M NaCl and 40% 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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