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**Product Data Sheet**


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Product Name: ATG5 Human  
 Cat. No.: GP22796  
 Batch No.: 1

**Product Data**

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Autophagy protein 5; APG5-like; Apoptosis-specific protein; ATG5; ASP; APG5; APG5L; hAPG5.		
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MTDDKDVLDRD VWFGRIPTCF TLYQDEITER EAEPYYLLLPRVSYLTLVTD KVKKHFQKVM RQEDISEIWF EYEGTPLKWH YPIGLLLFDLL ASSSALPWNITVHFKSFPEK DLLHCPSKDA IEAHFMSCMK EADALKHKSQ VINEMQKKDH KQLWMGLQND RFDQFWAINR KLMEYPAEEN GFRYIPFRIY QTTERPFIQ KLFRPVAADG QLHTLGDLLKEVCPAIDPE DGEKKNQVMI HGIEPMLETP LQWLSEHLSY PDNFLHISII PQPTD		
Formulation	ATG5 at a concentration of 0.25mg/ml containing 20mM Tris-HCl, pH 8.0, 1mM DTT , 0.2M NaCl and 40% glycerol.		

**Introduction**

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.

**Stability**

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.

**Background**

ATG5 produced in E.Coli is a single, non-glycosylated polypeptide chain containing 295

**Caution: Product has not been fully validated for medical applications. For research use only.**

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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.

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