
Product Data Sheet

Product Name: ATG10 Human
 Cat. No.: GP22793
 Batch No.: 1

Product Data

Purity	>98%	Source	E.coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Autophagy Related Protein 10; ATG10 Autophagy Related 10 Homolog (S. Cerevisiae); Ubiquitin-Like-Conjugating Enzyme ATG10; APG10 Autophagy 10-Like (S. Cerevisiae); APG10-Like; APG10L; Pp12616; DKFZP586I0418; FLJ13954; EC 6.3.2.-.		
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MGSMEEDEFI GEKTFQRYCA EFIKHSQQIG DSWEWRPSKD CSDGYMCKIH FQIKNGSVMS HLGASTHGQT CLPMEEAFEL PLDDCEVIET AAASEVIKYE YHVLYSCSYQ VPVLYFRASF LDGRPLTLKD IWEGVHECYK MRLQLQGPWDT ITQQEHPILG QPFFVLHPCK TNEFMTPVLK NSQKINKNVN YITSWLSIVG PVVGLNLPLS YAKATSQDER NVP		
Formulation	The ATG10 solution (1mg/1ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.1M NaCl, 1mM DTT and 10% glycerol.		

Introduction

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.

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.

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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Background

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.

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