

**(DANRE) atg5 Blocking Peptide (Center)**  
**Synthetic peptide**  
**Catalog # BP21165a**

**Specification**

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**(DANRE) atg5 Blocking Peptide (Center) - Product Information**

Primary Accession [Q6DEM4](#)

**(DANRE) atg5 Blocking Peptide (Center) - Additional Information**

**Target/Specificity**

The synthetic peptide sequence is selected from aa 128-140 of HUMAN Q6DEM4

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**(DANRE) atg5 Blocking Peptide (Center) - Protein Information**

**Name** Q6DEM4

**Function**

Involved in autophagic vesicle formation. Conjugation with ATG12, through a ubiquitin-like conjugating system involving ATG7 as an E1-like activating enzyme and ATG10 as an E2-like conjugating enzyme, is essential for its function. The ATG12-ATG5 conjugate acts as an E3-like enzyme which is required for lipidation of ATG8 family proteins and their association to the vesicle membranes. Involved in mitochondrial quality control after oxidative damage, and in subsequent cellular longevity. Plays a critical role in multiple aspects of lymphocyte development and is essential for both B and T lymphocyte survival and proliferation. Required for optimal processing and presentation of antigens for MHC II. Involved in the maintenance of axon morphology and membrane structures, as well as in normal adipocyte differentiation. Promotes primary ciliogenesis through removal of OFD1 from centriolar satellites and degradation of IFT20 via the autophagic pathway.

**Cellular Location**

Preautophagosomal structure membrane {ECO:0000256|RuleBase:RU361202}; Peripheral membrane protein {ECO:0000256|RuleBase:RU361202}

**(DANRE) atg5 Blocking Peptide (Center) - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

**(DANRE) atg5 Blocking Peptide (Center) - Images**