

**Autophagy Inducer Control: Beclin1 BH3 domain mutant (Human, MT1-L116A)**  
**Synthetic Peptide**  
**Catalog # SP1047a**

**Specification**

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**Autophagy Inducer Control: Beclin1 BH3 domain mutant (Human, MT1-L116A) - Product Information**

Primary Accession [Q6GP52](#)  
Other Accession [Q4A1L3](#), [Q5ZKS6](#), [Q91XJ1](#), [O88597](#), [Q4A1L5](#)  
Sequence [GTMENLSRRAKVTGDLFDIMSGQTDV](#)

**Autophagy Inducer Control: Beclin1 BH3 domain mutant (Human, MT1-L116A) - Additional Information**

**Gene ID** 444178

**Other Names**

Beclin-1, becn1

**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.

**Autophagy Inducer Control: Beclin1 BH3 domain mutant (Human, MT1-L116A) - Protein Information**

**Name** becn1

**Function**

Plays a central role in autophagy (By similarity). Acts as core subunit of different PI3K complex forms that mediate formation of phosphatidylinositol 3-phosphate and are believed to play a role in multiple membrane trafficking pathways: PI3KC3-C1 is involved in initiation of autophagosomes and PI3KC3-C2 in maturation of autophagosomes and endocytosis (By similarity). Involved in regulation of degradative endocytic trafficking and required for the abscission step in cytokinesis, probably in the context of PI3KC3-C2 (By similarity). Essential for the formation of PI3KC3-C2 but not PI3KC3-C1 PI3K complex forms (By similarity). Involved in endocytosis including endosome formation in neuronal cells (By similarity).

**Cellular Location**

Cytoplasm {ECO:0000250|UniProtKB:O88597}. Golgi apparatus, trans-Golgi network membrane {ECO:0000250|UniProtKB:Q14457}; Peripheral membrane protein {ECO:0000250|UniProtKB:Q14457}. Endosome membrane {ECO:0000250|UniProtKB:Q14457};

Peripheral membrane protein {ECO:0000250|UniProtKB:Q14457}. Endoplasmic reticulum membrane {ECO:0000250|UniProtKB:Q14457}; Peripheral membrane protein {ECO:0000250|UniProtKB:Q14457}. Mitochondrion membrane {ECO:0000250|UniProtKB:Q14457}; Peripheral membrane protein {ECO:0000250|UniProtKB:Q14457}. Cytoplasmic vesicle, autophagosome

**Autophagy Inducer Control: Beclin1 BH3 domain mutant (Human, MT1-L116A) - Images**