

Phospho-Belcin 1 Blocking Peptide

Synthetic peptide

Catalog # BP3765a

Specification**Phospho-Belcin 1 Blocking Peptide - Product Information**

Primary Accession [Q14457](#)
Other Accession [Q6GP52](#), [Q91XJ1](#),
[Q4A1L5](#), [O88597](#),
[Q5ZKS6](#), [Q4A1L4](#),
[NP_003757.1](#)

Phospho-Belcin 1 Blocking Peptide - Additional Information**Gene ID** 8678**Other Names**

Beclin-1, Coiled-coil myosin-like
BCL2-interacting protein, Protein GT197,
BECN1, GT197

Target/Specificity

The synthetic peptide sequence is selected
from aa 115-123 of HUMAN 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.

Phospho-Belcin 1 Blocking Peptide - Protein Information**Name** BECN1**Synonyms** GT197**Phospho-Belcin 1 Blocking Peptide - Background**

Beclin-1 participates in the regulation of
autophagy and has an important role in
development, tumorigenesis, and
neurodegeneration (Zhong et al., 2009
[PubMed 19270693]).[supplied by OMIM].

Phospho-Belcin 1 Blocking Peptide - References

Koukourakis, M.I., et al. Br. J. Cancer
103(8):1209-1214(2010) Jaeger, P.A., et al.
Arch. Neurol. 67(10):1181-1184(2010)
Metzger, S., et al. Hum. Genet.
128(4):453-459(2010) Oberstein, A., et al. J.
Biol. Chem. 282(17):13123-13132(2007)
Furuya, N., et al. Autophagy 1(1):46-52(2005)

Function

Plays a central role in autophagy (PubMed:23184933, PubMed:28445460). Acts as core subunit of the PI3K complex that mediates formation of phosphatidylinositol 3-phosphate; different complex forms 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. Involved in regulation of degradative endocytic trafficking and required for the abscission step in cytokinesis, probably in the context of PI3KC3-C2 (PubMed:20643123, PubMed:20208530, PubMed:26783301). Essential for the formation of PI3KC3-C2 but not PI3KC3-C1 PI3K complex forms. Involved in endocytosis (PubMed:25275521). Protects against infection by a neurovirulent strain of Sindbis virus (PubMed:9765397). May play a role in antiviral host defense.

Cellular Location

Cytoplasm
{ECO:0000250|UniProtKB:O88597, ECO:0000269|PubMed:19713971, ECO:0000269|PubMed:21364619}. Golgi apparatus, trans-Golgi network membrane; Peripheral membrane protein. Endosome membrane; Peripheral membrane protein. Endoplasmic reticulum membrane; Peripheral membrane protein. Mitochondrion membrane; Peripheral membrane protein. Endosome {ECO:0000250|UniProtKB:O88597} Cytoplasmic vesicle, autophagosome. Note=Interaction with ATG14 promotes translocation to autophagosomes. Expressed in dendrites and cell bodies of cerebellar Purkinje cells (By similarity)

{ECO:0000250|UniProtKB:O88597,
ECO:0000269|PubMed:19050071}
[Beclin-1-C 37 kDa]: Mitochondrion
{ECO:0000250|UniProtKB:O88597}

Tissue Location

Ubiquitous.

**Phospho-Belcin 1 Blocking Peptide -
Protocols**

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

- [Blocking Peptides](#)