

Phospho-bcl-2(S70) Blocking Peptide
Synthetic peptide
Catalog # BP3789a**Specification**

Phospho-bcl-2(S70) Blocking Peptide - Product Information

Primary Accession [P10415](#)
Other Accession [NP_000624.2](#)

Phospho-bcl-2(S70) Blocking Peptide - Additional Information

Gene ID 596

Other Names

Apoptosis regulator Bcl-2, BCL2

Target/Specificity

The synthetic peptide sequence is selected from aa 63-74 of HUMAN BCL2

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-bcl-2(S70) Blocking Peptide - Protein Information

Name BCL2

Function

Suppresses apoptosis in a variety of cell systems including factor-dependent lymphohematopoietic and neural cells (PubMed:1508712, PubMed:8183370). Regulates cell death by controlling the mitochondrial membrane permeability (PubMed:11368354). Appears to function in a feedback loop system with caspases (PubMed:11368354). Inhibits caspase activity either by preventing the release of cytochrome c from the mitochondria and/or by binding to the apoptosis-activating factor (APAF-1) (PubMed:11368354). Also acts as an inhibitor of autophagy: interacts with BECN1 and AMBRA1 during non-starvation conditions and inhibits their autophagy function (PubMed:18570871, PubMed:21358617, PubMed:20889974).

target="_blank">20889974). May attenuate inflammation by impairing NLRP1-inflammasome activation, hence CASP1 activation and IL1B release (PubMed:17418785).

Cellular Location

Mitochondrion outer membrane; Single-pass membrane protein. Nucleus membrane; Single-pass membrane protein. Endoplasmic reticulum membrane; Single-pass membrane protein. Cytoplasm {ECO:0000250|UniProtKB:P10417}

Tissue Location

Expressed in a variety of tissues.

Phospho-bcl-2(S70) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

Phospho-bcl-2(S70) Blocking Peptide - Images**Phospho-bcl-2(S70) Blocking Peptide - Background**

This gene encodes an integral outer mitochondrial membrane protein that blocks the apoptotic death of some cells such as lymphocytes. Constitutive expression of BCL2, such as in the case of translocation of BCL2 to Ig heavy chain locus, is thought to be the cause of follicular lymphoma. Two transcript variants, produced by alternate splicing, differ in their C-terminal ends. [provided by RefSeq].

Phospho-bcl-2(S70) Blocking Peptide - References

Feng, H., et al. Cancer Cell 18(4):353-366(2010)
Azad, N., et al. Ann. N. Y. Acad. Sci. 1203, 1-6 (2010) :
Dubikov, A.I., et al. Scand. J. Rheumatol. 39(5):368-372(2010)
Yu, B., et al. J. Exp. Clin. Cancer Res. 29, 107 (2010) :
Trisciuglio, D., et al. PLoS ONE 5 (7), E11772 (2010) :