BNIP2 Blocking Peptide – The purity is >90%,tested by HPLC and MS. Purity

PRODUCT OVERVIEW

Product Name	BNIP2, Blocking Peptide
Full Product Name	BNIP2 Blocking Peptide
Product Gene Name	BNIP2 blocking peptide
Product Synonym Names	BCL2/adenovirus E1B 19 kDa protein interacting protein 2; BCL2/adenovirus E1B 19 kDa protein-interacting protein 2; BCL2/adenovirus E1B 19kDa interacting protein 2; BNIP 2; Bnip2; BNIP2_HUMAN; NIP2
Form/Format	Synthetic peptide was lyophilized with 100% acetonitrile and is supplied as a powder. Reconstitute with 0.1 ml DI water for a final concentration of 10 mg/ml.
Purity/Purification	The purity is >90%,tested by HPLC and MS.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C.
Antibody/Peptide Pairs	BNIP2 peptide (MBS9624000) is used for blocking the activity of BNIP2 antibody (MBS9605283)
Molecular Weight	43,135 Da
OMIM	603292
Supply Chain Verification	Manufactured in a lab with traceable raw materials manufactured on site. Coordinated product portfolio of antibodies, pairs, conjugates, recombinant proteins, and immunoassay materials available, please inquire.
Notes	For phospho antibody, we provide phospho peptide (0.5mg) and non-phospho peptide (0.5mg)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for BNIP2 blocking peptide	Blocking/Control
Related Product Information for BNIP2 blocking peptide	Blocking peptides are peptides that bind specifically to the target antibody and block antibody binding. These peptide usually contains the epitope recognized by the antibody. Antibodies bound to the blocking peptide no longer bind to the epitope on the target protein. This mechanism is useful when non-specific binding is an issue, for example, in Western blotting (immunoblot) and immunohistochemistry (IHC). By comparing the staining from the blocked antibody versus the antibody alone, one can see which staining is specific; Specific binding will be absent from the western blot or immunostaining performed with the neutralized antibody.
Other Notes	Small volumes of BNIP2 blocking peptide vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for BNIP2 purchase	MBS9624000 is a blocking peptide targeting BNIP2.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for BNIP2. It may not necessarily be applicable to this product.

NCBI GI #	1002623436
NCBI GeneID	663
NCBI Accession #	NP_001307604.1
UniProt Primary Accession #	Q12982
UniProt Secondary Accession #	B4DS94
UniProt Related Accession #	Q12982

GenBank Nucleotide #	NM_001320675.1
NCBI Official Full Name	BCL2/adenovirus E1B 19 kDa protein-interacting protein 2 isoform 3
NCBI Official Synonym Full Names	BCL2 interacting protein 2
NCBI Official Symbol	BNIP2
NCBI Official Synonym Symbols	NIP2; BNIP-2
UniProt Protein Name	BCL2/adenovirus E1B 19 kDa protein-interacting protein 2
Protein Family	BCL2/adenovirus E1B 19 kDa protein-interacting protein
UniProt Gene Name	BNIP2
UniProt Synonym Gene Names	NIP2
UniProt Entry Name	BNIP2_HUMAN
NCBI Protein Information	BCL2/adenovirus E1B 19 kDa protein-interacting protein 2
NCBI Summary for BNIP2	This gene is a member of the BCL2/adenovirus E1B 19 kd-interacting protein (BNIP) family. It interacts with the E1B 19 kDa protein, which protects cells from virally-induced cell death. The encoded protein also interacts with E1B 19 kDa-like sequences of BCL2, another apoptotic protector. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Mar 2016]
UniProt Comments for BNIP2	BNIP2: Implicated in the suppression of cell death. Interacts with the BCL-2 and adenovirus E1B 19 kDa proteins. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Apoptosis; Motility/polarity/chemotaxis Chromosomal Location of Human Ortholog: 15q22.2 Cellular Component: intracellular membrane-bound organelle; perinuclear region of cytoplasm; cytoplasm; nuclear envelope; cytosol Molecular Function: identical protein binding; protein binding; calcium ion binding; GTPase activator activity Biological Process: muscle cell differentiation; apoptosis; positive regulation of muscle cell differentiation; positive regulation of GTPase activity; negative regulation of apoptosis
Research Articles on BNIP2	**1.** BNIP-2 is a kinesin-1 adapter involved in vesicular transportation in the cytoplasm and that association with cargos depends on interaction of the CRAL-TRIO domain with membrane phosphatidylserine.
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