BNIP2 siRNA – BCL2/Adenovirus E1B 19 Kda Protein-Interacting Protein 2 (Human)

PRODUCT OVERVIEW

Product Name	BNIP2, siRNA
Full Product Name	BNIP2 siRNA (Human)
Product Gene Name	BNIP2 sirna
Product Synonym Names	NIP2; BCL2/adenovirus E1B 19 kDa protein-interacting protein 2
Host	Synthetic
Species Reactivity	Human
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	BNIP2 siRNA (Human) is a target-specific 19-23 nt siRNA oligo duplexes designed to knock down gene expression.
Preparation and Storage	Shipped at 4 degree C. Store at -20 degree C for one year.
Molecular Weight	43,135 Da
OMIM	603292
3D Structure	ModBase 3D Structure for Q12982
Negative Control	siRNA Negative Control (Catalog# MBS8241404) is a non-targeting 21 nt siRNA recommended as a negative control for experiments using targeted siRNA transfection.
Quality Control	Oligonucleotide synthesis is monitored base by base through trityl analysis to ensure appropriate coupling efficiency. The oligo is subsequently purified by affinity-solid phase extraction. The annealed RNA duplex is further analyzed by mass spectrometry to verify the exact composition of the duplex. Each lot is compared to the previous lot by mass spectrometry to ensure maximum lot-to-lot consistency.
Directions for Use	We recommends transfection with 100 nM siRNA 48 to 72 hours prior to cell lysis. Before resuspending, briefly centrifuge the tube to ensure the lyophilized siRNA is at the bottom of the tube. Resuspend the siRNA oligos to an appropriate concentration with DEPC water. For each vial, suitable for 250 transfections in 24 well plate (20 pmol for each well).
Components	We offer pre-designed sets of 3 different target-specific siRNA oligo duplexes of human BNIP2 gene. Each vial contains 5 nmol of lyophilized siRNA. The duplexes can be transfected individually or pooled together to achieve knockdown of the target gene, which is most commonly assessed by qPCR or western blot. Our siRNA oligos are also chemically modified (2'-OMe) at no extra charge for increased stability and enhanced knockdown in vitro and in vivo.
Applications Tested/Suitable for BNIP2 sirna	RNA Interference (RNAi)
Related Product Information for BNIP2 sirna	MBS8216530 is an siRNA targeting BNIP2. Also known as BNIP2 siRNA (Human). Reactive in Human. Host: Synthetic. siRNA to inhibit BNIP2 expression using RNA interference
Other Notes	Small volumes of BNIP2 sirna 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.

ADDITIONAL DETAILS

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

NCBI GI #	168480080
NCBI GeneID	663
NCBI Accession #	NP_004321.2
UniProt Primary Accession #	Q12982
UniProt Secondary Accession #	B4DS94
UniProt Related Accession #	Q12982
GenBank Nucleotide #	NM_004330.2
NCBI Official Full Name	BCL2/adenovirus E1B 19 kDa protein-interacting protein 2
NCBI Official Synonym Full Names	BCL2/adenovirus E1B 19kDa 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. [provided by RefSeq, Mar 2011]
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: Motility/polarity/chemotaxis; Apoptosis 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; negative regulation of apoptosis; positive regulation of GTPase activity
Research Articles on BNIP2	**1.** BNIP-2 directly interacted with the motor and tail domains of KIF5B via its BCH domain.
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