BIK siRNA – Bcl-2-Interacting Killer (Human)

PRODUCT OVERVIEW

Product Name	BIK, siRNA
Full Product Name	BIK siRNA (Human)
Product Gene Name	BIK sirna
Product Synonym Names	NBK; Bcl-2-interacting killer; Apoptosis inducer NBK; BIP1; BP4
Host	Synthetic
Species Reactivity	Human
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	BIK 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	18,016 Da
OMIM	603392
3D Structure	ModBase 3D Structure for Q13323
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 BIK 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 BIK sirna	RNA Interference (RNAi)
Related Product Information for BIK sirna	MBS8233388 is an siRNA targeting BIK. Also known as BIK siRNA (Human). Reactive in Human. Host: Synthetic. siRNA to inhibit BIK expression using RNA interference
Other Notes	Small volumes of BIK 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 BIK. It may not necessarily be applicable to this product.

NCBI GI #	4502411
NCBI GeneID	638
NCBI Accession #	NP_001188.1
UniProt Primary Accession #	Q13323
UniProt Secondary Accession #	Q16582; Q6FH93
UniProt Related Accession #	Q13323
GenBank Nucleotide #	NM_001197.4
NCBI Official Full Name	bcl-2-interacting killer
NCBI Official Synonym Full Names	BCL2-interacting killer (apoptosis-inducing)
NCBI Official Symbol	BIK
NCBI Official Synonym Symbols	BP4; NBK; BIP1
UniProt Protein Name	Bcl-2-interacting killer
UniProt Synonym Protein Names	Apoptosis inducer NBK; BIP1; BP4
Protein Family	Bcl-2-interacting killer
UniProt Gene Name	BIK
UniProt Synonym Gene Names	NBK
UniProt Entry Name	BIK_HUMAN
NCBI Protein Information	bcl-2-interacting killer
NCBI Summary for BIK	The protein encoded by this gene shares a critical BH3 domain with other death-promoting proteins, such as BID, BAK, BAD and BAX, that is required for its pro-apoptotic activity, and for interaction with anti-apoptotic members of the BCL2 family, and viral survival-promoting proteins. Since the activity of this protein is suppressed in the presence of survival-promoting proteins, it is suggested as a likely target for anti-apoptotic proteins. [provided by RefSeq, Sep 2011]
UniProt Comments for BIK	BIK: accelerates programmed cell death. Binding to the apoptosis repressors Bcl-xL, Bcl-2, or BHRF1 (the Epstein-Barr virus homolog of Bcl-2) suppresses its death-promoting activity. Contains 1 Bcl-2 homology 3 (BH3) domain. Does not interact with Bax. Protein type: Membrane protein, integral; Apoptosis; Mitochondrial Chromosomal Location of Human Ortholog: 22q13.31 Cellular Component: mitochondrial membrane; integral to membrane; endomembrane system Molecular Function: BH domain binding; protein binding; protein heterodimerization activity Biological Process: apoptotic mitochondrial changes; apoptosis; positive regulation of protein homooligomerization; male gonad development; spermatogenesis
Research Articles on BIK	**1.** HCV RNA replication and release were significantly suppressed in BIK-depleted cells and over-expression of the RNA-dependent RNA polymerase, NS5B, was able to induce BIK expression
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