TP53RK siRNA – TP53-Regulating Kinase (Mouse)

PRODUCT OVERVIEW

Product Name	TP53RK, siRNA
Full Product Name	TP53RK siRNA (Mouse)
Product Gene Name	TP53RK sirna
Product Synonym Names	PRPK; TRP53RK; TP53-regulating kinase; Atypical serine/threonine protein kinase Tp53rk; EKC/KEOPS complex subunit Tp53rk; Nori-2; p53-related protein kinase
Host	Synthetic
Species Reactivity	Mouse
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	TP53RK siRNA (Mouse) 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	27,394 Da
3D Structure	ModBase 3D Structure for Q99PW4
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 mouse TP53RK 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 TP53RK sirna	RNA Interference (RNAi)
Related Product Information for TP53RK sirna	MBS8221223 is an siRNA targeting TP53RK. Also known as TP53RK siRNA (Mouse). Reactive in Mouse. Host: Synthetic. siRNA to inhibit TP53RK expression using RNA interference
Other Notes	Small volumes of TP53RK 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 TP53RK. It may not necessarily be applicable to this product.

NCBI GI #	31560052
NCBI GeneID	76367
NCBI Accession #	NP_076304.2
UniProt Primary Accession #	Q99PW4
UniProt Secondary Accession #	Q91W37; Q9CZ32
UniProt Related Accession #	Q99PW4
GenBank Nucleotide #	NM_023815.4
NCBI Official Full Name	TP53-regulating kinase
NCBI Official Synonym Full Names	transformation related protein 53 regulating kinase B
NCBI Official Symbol	Trp53rkb
NCBI Official Synonym Symbols	PRPK; Nori-2; Tp53rk; Trp53rk; Trp53tk; mNori-2p; 2810408M09Rik; 4933401B08Rik; 5630401H01Rik
UniProt Protein Name	TP53-regulating kinase
UniProt Synonym Protein Names	Atypical serine/threonine protein kinase Tp53rk; EKC/KEOPS complex subunit Tp53rk (EC:3.6.-.-); Nori-2; p53-related protein kinase
Protein Family	TP53-regulating kinase
UniProt Gene Name	Tp53rk
UniProt Synonym Gene Names	Prpk; Trp53rk
UniProt Entry Name	PRPK_MOUSE
NCBI Protein Information	TP53-regulating kinase
UniProt Comments for TP53RK	PRPK: Protein kinase that phosphorylates 'Ser-15' of p53/TP53 protein and may therefore participate in its activation. Belongs to the protein kinase superfamily. Protein type: EC 2.7.11.1; Protein kinase, Other; Protein kinase, Ser/Thr (non-receptor); Kinase, protein; Other group; Bud32 family Cellular Component: cytosol; nucleus Molecular Function: protein serine/threonine kinase activity; p53 binding Biological Process: protein amino acid phosphorylation
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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