CSNK1G3 siRNA – Casein Kinase I Isoform Gamma-3 (Mouse)

PRODUCT OVERVIEW

Product Name	CSNK1G3, siRNA
Full Product Name	CSNK1G3 siRNA (Mouse)
Product Gene Name	CSNK1G3 sirna
Product Synonym Names	Casein kinase I isoform gamma-3; CKI-gamma 3
Host	Synthetic
Species Reactivity	Mouse
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	CSNK1G3 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	48,938 Da
3D Structure	ModBase 3D Structure for Q8C4X2
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 CSNK1G3 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 CSNK1G3 sirna	RNA Interference (RNAi)
Related Product Information for CSNK1G3 sirna	MBS8218313 is an siRNA targeting CSNK1G3. Also known as CSNK1G3 siRNA (Mouse). Reactive in Mouse. Host: Synthetic. siRNA to inhibit CSNK1G3 expression using RNA interference
Other Notes	Small volumes of CSNK1G3 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 CSNK1G3. It may not necessarily be applicable to this product.

NCBI GI #	113462019

NCBI GeneID	70425
NCBI Accession #	NP_690022.2
UniProt Primary Accession #	Q8C4X2
UniProt Secondary Accession #	Q8BM57; Q8C001; Q8K079
UniProt Related Accession #	Q8C4X2
GenBank Nucleotide #	NM_152809.2
NCBI Official Full Name	casein kinase I isoform gamma-3
NCBI Official Synonym Full Names	casein kinase 1, gamma 3
NCBI Official Symbol	Csnk1g3
NCBI Official Synonym Symbols	3300002K07Rik; C330049O21Rik
UniProt Protein Name	Casein kinase I isoform gamma-3
Protein Family	Casein kinase
UniProt Gene Name	Csnk1g3
UniProt Synonym Gene Names	CKI-gamma 3
UniProt Entry Name	KC1G3_MOUSE
NCBI Protein Information	casein kinase I isoform gamma-3
UniProt Comments for CSNK1G3	CK1G3: Serine/threonine-protein kinase. Casein kinases are operationally defined by their preferential utilization of acidic proteins such as caseins as substrates. It can phosphorylate a large number of proteins. Participates in Wnt signaling. Regulates fast synaptic transmission mediated by glutamate. Belongs to the protein kinase superfamily. CK1 Ser/Thr protein kinase family. Casein kinase I subfamily. 3 isoforms of the human protein are produced by alternative splicing. Protein type: Protein kinase, CK1; Protein kinase, Ser/Thr (non-receptor); Kinase, protein; EC 2.7.11.1; CK1 group; CK1 family Cellular Component: cytoplasm; nucleus Molecular Function: transferase activity; protein serine/threonine kinase activity; transferase activity, transferring phosphorus-containing groups; magnesium ion binding; nucleotide binding; phosphoprotein binding; kinase activity; glycoprotein binding; peptide binding; ATP binding; protein kinase activity Biological Process: regulation of cell shape; peptidyl-serine phosphorylation; Wnt receptor signaling pathway; protein amino acid autophosphorylation; endocytosis; protein amino acid phosphorylation; phosphorylation
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