KCTD7 siRNA – BTB/POZ Domain-Containing Protein KCTD7 (Mouse)

PRODUCT OVERVIEW

Product Name	KCTD7, siRNA
Full Product Name	KCTD7 siRNA (Mouse)
Product Gene Name	KCTD7 sirna
Product Synonym Names	BTB/POZ domain-containing protein KCTD7
Host	Synthetic
Species Reactivity	Mouse
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	KCTD7 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	33,080 Da
3D Structure	ModBase 3D Structure for Q8BJK1
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 KCTD7 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 KCTD7 sirna	RNA Interference (RNAi)
Related Product Information for KCTD7 sirna	MBS8215845 is an siRNA targeting KCTD7. Also known as KCTD7 siRNA (Mouse). Reactive in Mouse. Host: Synthetic. siRNA to inhibit KCTD7 expression using RNA interference
Other Notes	Small volumes of KCTD7 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 KCTD7. It may not necessarily be applicable to this product.

NCBI GI #	27369698

NCBI GeneID	212919
NCBI Accession #	NP_766097.1
UniProt Primary Accession #	Q8BJK1
UniProt Secondary Accession #	Q3USA6; Q80WW8; Q8C0S7; B2RSZ3
UniProt Related Accession #	Q8BJK1
GenBank Nucleotide #	NM_172509.3
NCBI Official Full Name	BTB/POZ domain-containing protein KCTD7
NCBI Official Synonym Full Names	potassium channel tetramerisation domain containing 7
NCBI Official Symbol	Kctd7
NCBI Official Synonym Symbols	4932409E18; 9430010P06Rik
UniProt Protein Name	BTB/POZ domain-containing protein KCTD7
Protein Family	BTB/POZ domain-containing protein
UniProt Gene Name	Kctd7
UniProt Entry Name	KCTD7_MOUSE
NCBI Protein Information	BTB/POZ domain-containing protein KCTD7
UniProt Comments for KCTD7	KCTD7: contains a K+ channel tetramerisation domain (T1) found in voltage-gated K+ channel proteins. Encodes molecular determinants for the assembly of functional tetrameric channels. Two alternatively spliced isoforms have been described. Protein type: Unknown function Cellular Component: membrane; cytoplasm; plasma membrane Biological Process: protein homooligomerization
Research Articles on KCTD7	**1.** KCTD7 expression hyperpolarizes the cell membrane and reduces the excitability of transfected neurons in patch clamp experiments.
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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