KIAA1161 siRNA – Uncharacterized Family 31 Glucosidase KIAA1161 (Mouse)

PRODUCT OVERVIEW

Product Name	KIAA1161, siRNA
Full Product Name	KIAA1161 siRNA (Mouse)
Product Gene Name	KIAA1161 sirna
Product Synonym Names	Uncharacterized family 31 glucosidase KIAA1161
Host	Synthetic
Species Reactivity	Mouse
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	KIAA1161 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	81,362 Da
3D Structure	ModBase 3D Structure for Q69ZQ1
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 KIAA1161 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 KIAA1161 sirna	RNA Interference (RNAi)
Related Product Information for KIAA1161 sirna	MBS8206628 is an siRNA targeting KIAA1161. Also known as KIAA1161 siRNA (Mouse). Reactive in Mouse. Host: Synthetic. siRNA to inhibit KIAA1161 expression using RNA interference
Other Notes	Small volumes of KIAA1161 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 KIAA1161. It may not necessarily be applicable to this product.

NCBI GI #	147903587

NCBI GeneID	329828
NCBI Accession #	NP_001078984.1
UniProt Primary Accession #	Q69ZQ1
UniProt Secondary Accession #	A2ANN6; B2RU42
UniProt Related Accession #	Q69ZQ1
GenBank Nucleotide #	NM_001085515.2
NCBI Official Full Name	uncharacterized family 31 glucosidase KIAA1161
NCBI Official Synonym Full Names	expressed sequence AI464131
NCBI Official Symbol	AI464131
NCBI Official Synonym Symbols	Gm762; NET37; AA408153; AI604836; Kiaa1161
UniProt Protein Name	Uncharacterized family 31 glucosidase KIAA1161
UniProt Gene Name	Kiaa1161
UniProt Entry Name	K1161_MOUSE
NCBI Protein Information	uncharacterized family 31 glucosidase KIAA1161
UniProt Comments for KIAA1161	KIAA1161: Putative glucosidase. Belongs to the glycosyl hydrolase 31 family. Protein type: EC 3.2.1.-; Membrane protein, integral; Hydrolase Cellular Component: nuclear membrane; membrane; integral to membrane Molecular Function: protein binding; fucosidase activity; hexosaminidase activity; galactosidase activity; lytic transglycosylase activity; hydrolase activity; mannosyl-oligosaccharide mannosidase activity; hydrolase activity, acting on glycosyl bonds; amylase activity; mannosidase activity; glucosidase activity; catalytic activity; trehalase activity; hydrolase activity, hydrolyzing O-glycosyl compounds Biological Process: positive regulation of insulin-like growth factor receptor signaling pathway; positive regulation of protein kinase B signaling cascade; metabolic process; carbohydrate metabolic process; skeletal muscle fiber development
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