SEMA5B siRNA – Semaphorin-5b (Mouse)

PRODUCT OVERVIEW

Product Name	SEMA5B, siRNA
Full Product Name	SEMA5B siRNA (Mouse)
Product Gene Name	SEMA5B sirna
Product Synonym Names	KIAA1445; SEMAG; SEMG; Semaphorin-5B; Semaphorin-G; Sema G
Host	Synthetic
Species Reactivity	Mouse
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	SEMA5B 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	123,131 Da
3D Structure	ModBase 3D Structure for Q60519
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 SEMA5B 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 SEMA5B sirna	RNA Interference (RNAi)
Related Product Information for SEMA5B sirna	MBS827487 is an siRNA targeting SEMA5B. Also known as SEMA5B siRNA (Mouse). Reactive in Mouse. Host: Synthetic. siRNA to inhibit SEMA5B expression using RNA interference
Other Notes	Small volumes of SEMA5B 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 SEMA5B. It may not necessarily be applicable to this product.

NCBI GI #	164698462

NCBI GeneID	20357
NCBI Accession #	NP_038689.2
UniProt Primary Accession #	Q60519
UniProt Secondary Accession #	Q6ZPQ8; Q7TT33; Q8BVE5; B1B1A9
UniProt Related Accession #	Q60519
GenBank Nucleotide #	NM_013661.2
NCBI Official Full Name	semaphorin-5B
NCBI Official Synonym Full Names	sema domain, seven thrombospondin repeats (type 1 and type 1-like), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 5B
NCBI Official Symbol	Sema5b
NCBI Official Synonym Symbols	SemG; Semag; AI893641; mKIAA1445
UniProt Protein Name	Semaphorin-5B
UniProt Synonym Protein Names	Semaphorin-G; Sema G
Protein Family	Semaphorin
UniProt Gene Name	Sema5b
UniProt Synonym Gene Names	Kiaa1445; Semag; SemG; Sema G
UniProt Entry Name	SEM5B_MOUSE
NCBI Protein Information	semaphorin-5B
UniProt Comments for SEMA5B	SEMA5B: a single-pass type I membrane protein of the semaphorin family that may act as positive axonal guidance cues. Two alternatively spliced human isoforms have been described. Protein type: Membrane protein, integral Cellular Component: membrane; integral to membrane Molecular Function: receptor activity Biological Process: nervous system development; multicellular organismal development; cell differentiation
Research Articles on SEMA5B	**1.** Sema5A and Sema5B inhibit retinal neurite outgrowth through PlexinA1 and PlexinA3 receptors both in vitro and in vivo.
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