FIGF siRNA – Vascular Endothelial Growth Factor D (Rat)

PRODUCT OVERVIEW

Product Name	FIGF, siRNA
Full Product Name	FIGF siRNA (Rat)
Product Gene Name	FIGF sirna
Product Synonym Names	VEGFD; Vascular endothelial growth factor D; VEGF-D; c-Fos-induced growth factor; FIGF
Host	Synthetic
Species Reactivity	Rat
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	FIGF siRNA (Rat) 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	37,113 Da
3D Structure	ModBase 3D Structure for O35251
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 rat FIGF 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 FIGF sirna	RNA Interference (RNAi)
Related Product Information for FIGF sirna	MBS8207356 is an siRNA targeting FIGF. Also known as FIGF siRNA (Rat). Reactive in Rat. Host: Synthetic. siRNA to inhibit FIGF expression using RNA interference
Other Notes	Small volumes of FIGF 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 FIGF. It may not necessarily be applicable to this product.

NCBI GI #	13929074
NCBI GeneID	360457

NCBI Accession #	NP_113949.1
UniProt Primary Accession #	O35251
UniProt Secondary Accession #	Q91ZE4
UniProt Related Accession #	O35251
GenBank Nucleotide #	NM_031761.1
NCBI Official Full Name	vascular endothelial growth factor D
NCBI Official Synonym Full Names	c-fos induced growth factor
NCBI Official Symbol	Figf
NCBI Official Synonym Symbols	Vegf-d
UniProt Protein Name	Vascular endothelial growth factor D
UniProt Synonym Protein Names	c-Fos-induced growth factor; FIGF
Protein Family	Vascular endothelial growth factor
UniProt Gene Name	Figf
UniProt Synonym Gene Names	Vegfd; VEGF-D; FIGF
UniProt Entry Name	VEGFD_RAT
NCBI Protein Information	vascular endothelial growth factor D
NCBI Summary for FIGF	binds to and activates the tyrosine kinase receptor VEGFR-3 and VEGFR-2; involved in positive regulation of lymphatic blood vessel growth [RGD, Feb 2006]
UniProt Comments for FIGF	Growth factor active in angiogenesis, lymphangiogenesis and endothelial cell growth, stimulating their proliferation and migration and also has effects on the permeability of blood vessels. May function in the formation of the venous and lymphatic vascular systems during embryogenesis, and also in the maintenance of differentiated lymphatic endothelium in adults. Binds and activates VEGFR-3 (Flt4) receptor ().
Research Articles on FIGF	**1.** Expression of VEGF-D and its receptor, VEGFR-3, are enhanced in various cell types in the infarcted heart.
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