FADS6 siRNA – Fatty Acid Desaturase 6 (Human)

PRODUCT OVERVIEW

Product Name	FADS6, siRNA
Full Product Name	FADS6 siRNA (Human)
Product Gene Name	FADS6 sirna
Product Synonym Names	Fatty acid desaturase 6
Host	Synthetic
Species Reactivity	Human
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	FADS6 siRNA (Human) 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	38,393 Da
3D Structure	ModBase 3D Structure for Q8N9I5
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 human FADS6 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 FADS6 sirna	RNA Interference (RNAi)
Related Product Information for FADS6 sirna	MBS8234895 is an siRNA targeting FADS6. Also known as FADS6 siRNA (Human). Reactive in Human. Host: Synthetic. siRNA to inhibit FADS6 expression using RNA interference
Other Notes	Small volumes of FADS6 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 FADS6. It may not necessarily be applicable to this product.

NCBI GI #	618467106

NCBI GeneID	283985
NCBI Accession #	NP_835229.3
UniProt Primary Accession #	Q8N9I5
UniProt Secondary Accession #	Q17RQ7; Q6XYE1
UniProt Related Accession #	Q8N9I5
GenBank Nucleotide #	NM_178128.5
NCBI Official Full Name	fatty acid desaturase 6
NCBI Official Synonym Full Names	fatty acid desaturase 6
NCBI Official Symbol	FADS6
NCBI Official Synonym Symbols	FP18279
UniProt Protein Name	Fatty acid desaturase 6
Protein Family	Fatty acid desaturase
UniProt Gene Name	FADS6
UniProt Entry Name	FADS6_HUMAN
NCBI Protein Information	fatty acid desaturase 6
UniProt Comments for FADS6	FADS6: Belongs to the fatty acid desaturase family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Membrane protein, integral; Oxidoreductase; EC 1.14.19.-; Membrane protein, multi-pass Chromosomal Location of Human Ortholog: 17q25.1 Cellular Component: integral to membrane Molecular Function: oxidoreductase activity Biological Process: fatty acid biosynthetic process
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