HACL1 siRNA – 2-Hydroxyacyl-Coa Lyase 1 Isoform B (Human)

PRODUCT OVERVIEW

Product Name	HACL1, siRNA
Full Product Name	HACL1 siRNA (Human)
Product Gene Name	HACL1 sirna
Product Synonym Names	HPCL; HPCL2; PHYH2; 2-hydroxyacyl-CoA lyase 1; 2-hydroxyphytanoyl-CoA lyase; 2-HPCL; Phytanoyl-CoA 2-hydroxylase 2
Host	Synthetic
Species Reactivity	Human
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	HACL1 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	54,724 Da
OMIM	604300
3D Structure	ModBase 3D Structure for Q9UJ83
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 HACL1 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 HACL1 sirna	RNA Interference (RNAi)
Related Product Information for HACL1 sirna	MBS8238576 is an siRNA targeting HACL1. Also known as HACL1 siRNA (Human). Reactive in Human. Host: Synthetic. siRNA to inhibit HACL1 expression using RNA interference
Other Notes	Small volumes of HACL1 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 HACL1. It may not necessarily be applicable to this product.

NCBI GI #	548923731
NCBI GeneID	26061
NCBI Accession #	NP_001271342.1
UniProt Primary Accession #	Q9UJ83
UniProt Secondary Accession #	Q9BV42; Q9P0A2; B4DWI1; B4DXI5; E9PEN4
UniProt Related Accession #	Q9UJ83
GenBank Nucleotide #	NM_001284413.1
NCBI Official Full Name	2-hydroxyacyl-CoA lyase 1 isoform b
NCBI Official Synonym Full Names	2-hydroxyacyl-CoA lyase 1
NCBI Official Symbol	HACL1
NCBI Official Synonym Symbols	HPCL; HPCL2; PHYH2; 2-HPCL
UniProt Protein Name	2-hydroxyacyl-CoA lyase 1
UniProt Synonym Protein Names	2-hydroxyphytanoyl-CoA lyase; 2-HPCL; Phytanoyl-CoA 2-hydroxylase 2
Protein Family	2-hydroxyacyl-CoA lyase
UniProt Gene Name	HACL1
UniProt Synonym Gene Names	HPCL; HPCL2; PHYH2; 2-HPCL
UniProt Entry Name	HACL1_HUMAN
NCBI Protein Information	2-hydroxyacyl-CoA lyase 1
UniProt Comments for HACL1	HACL1: Catalyzes a carbon-carbon cleavage reaction; cleaves a 2-hydroxy-3-methylacyl-CoA into formyl-CoA and a 2-methyl-branched fatty aldehyde. Belongs to the TPP enzyme family. Protein type: EC 4.1.-.-; Lyase Chromosomal Location of Human Ortholog: 3p25.1 Cellular Component: peroxisomal matrix; peroxisome Molecular Function: identical protein binding; carbon-carbon lyase activity; thiamin pyrophosphate binding; magnesium ion binding; cofactor binding; receptor binding Biological Process: cellular lipid metabolic process; protein oligomerization; fatty acid alpha-oxidation
Research Articles on HACL1	**1.** Data show that a easy assay for 2-hydroxyacyl-CoA lyase (HACL1) and sphingosine-1-phosphate lyase (SGPL1) activities was developed.
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