LIPT1 siRNA – Lipoyltransferase 1, Mitochondrial (Mouse)

PRODUCT OVERVIEW

Product Name	LIPT1, siRNA
Full Product Name	LIPT1 siRNA (Mouse)
Product Gene Name	LIPT1 sirna
Product Synonym Names	Lipoyltransferase 1 mitochondrial; Lipoate biosynthesis protein; Lipoate-protein ligase; Lipoyl ligase
Host	Synthetic
Species Reactivity	Mouse
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	LIPT1 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	42,146 Da
3D Structure	ModBase 3D Structure for Q8VCM4
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 LIPT1 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 LIPT1 sirna	RNA Interference (RNAi)
Related Product Information for LIPT1 sirna	MBS8204269 is an siRNA targeting LIPT1. Also known as LIPT1 siRNA (Mouse). Reactive in Mouse. Host: Synthetic. siRNA to inhibit LIPT1 expression using RNA interference
Other Notes	Small volumes of LIPT1 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 LIPT1. It may not necessarily be applicable to this product.

NCBI GI #	158853994

NCBI GeneID	623661
NCBI Accession #	NP_001033007.2
UniProt Primary Accession #	Q8VCM4
UniProt Related Accession #	Q8VCM4
GenBank Nucleotide #	NM_001037918.3
NCBI Official Full Name	lipoyltransferase 1, mitochondrial
NCBI Official Synonym Full Names	lipoyltransferase 1
NCBI Official Symbol	Lipt1
NCBI Official Synonym Symbols	EG623661
UniProt Protein Name	Lipoyltransferase 1, mitochondrial
UniProt Synonym Protein Names	Lipoate biosynthesis protein; Lipoate-protein ligase; Lipoyl ligase
Protein Family	Lipoyltransferase
UniProt Gene Name	Lipt1
UniProt Entry Name	LIPT_MOUSE
NCBI Protein Information	lipoyltransferase 1, mitochondrial
UniProt Comments for LIPT1	LIPT1: Catalyzes the transfer of the lipoyl group from lipoyl- AMP to the specific lysine residue of lipoyl domains of lipoate- dependent enzymes. Belongs to the LplA family. Protein type: EC 2.3.1.-; Transferase; Cofactor and Vitamin Metabolism - lipoic acid Cellular Component: mitochondrion Molecular Function: keto acid formate lyase activity; glucosaminyl-phosphotidylinositol O-acyltransferase activity; S-malonyltransferase activity; 3-hydroxybutyryl-CoA thiolase activity; S-acetyltransferase activity; O-octanoyltransferase activity; O-sinapoyltransferase activity; acyl-CoA N-acyltransferase activity; palmitoleoyl [acyl-carrier-protein]-dependent acyltransferase activity; peptidyl-lysine N6-myristoyltransferase activity; peptidyl-lysine N6-palmitoyltransferase activity; azetidine-2-carboxylic acid acetyltransferase activity; succinyltransferase activity; dihydrolipoamide branched chain acyltransferase activity; Ras palmitoyltransferase activity; palmitoyltransferase activity; C-acyltransferase activity; C-palmitoyltransferase activity; dihydrolipoamide S-acyltransferase activity; protein-cysteine S-acyltransferase activity; N-acetyltransferase activity; serine O-acyltransferase activity; O-succinyltransferase activity; malonyltransferase activity; O-palmitoyltransferase activity; octanoyltransferase activity; sterol O-acyltransferase activity; 3-ketopimelyl-CoA thiolase activity; carnitine O-acyltransferase activity; S-succinyltransferase activity; N-acyltransferase activity; UDP-3-O-[3-hydroxymyristoyl] glucosamine N-acyltransferase activity; N-palmitoyltransferase activity; O-acyltransferase activity; acylglycerol O-acyltransferase activity; O-acetyltransferase activity; benzoyl acetate-CoA thiolase activity; transferase activity; sinapoyltransferase activity; protein-cysteine S-myristoyltransferase activity; S-acyltransferase activity; N-succinyltransferase activity; myristoyltransferase activity; acetyltransferase activity; transferase activity, transferring acyl groups; L-2-aminoadipate N-acetyltransferase activity Biological Process: protein lipoylation; protein modification process
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