LAMTOR5 siRNA – Ragulator Complex Protein LAMTOR5 (Human)

PRODUCT OVERVIEW

Product Name	LAMTOR5, siRNA
Full Product Name	LAMTOR5 siRNA (Human)
Product Gene Name	LAMTOR5 sirna
Product Synonym Names	HBXIP; XIP; Ragulator complex protein LAMTOR5; Hepatitis B virus X-interacting protein; HBV X-interacting protein; HBX-interacting protein; Late endosomal/lysosomal adaptor and MAPK and MTOR activator 5
Host	Synthetic
Species Reactivity	Human
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	LAMTOR5 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	9,614 Da
OMIM	608521
3D Structure	ModBase 3D Structure for O43504
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 LAMTOR5 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 LAMTOR5 sirna	RNA Interference (RNAi)
Related Product Information for LAMTOR5 sirna	MBS8224938 is an siRNA targeting LAMTOR5. Also known as LAMTOR5 siRNA (Human). Reactive in Human. Host: Synthetic. siRNA to inhibit LAMTOR5 expression using RNA interference
Other Notes	Small volumes of LAMTOR5 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 LAMTOR5. It may not necessarily be applicable to this product.

NCBI GI #	38788353
NCBI GeneID	10542
NCBI Accession #	NP_006393.2
UniProt Primary Accession #	O43504
UniProt Secondary Accession #	Q6IBD8
UniProt Related Accession #	O43504
GenBank Nucleotide #	NM_006402.2
NCBI Official Full Name	ragulator complex protein LAMTOR5
NCBI Official Synonym Full Names	late endosomal/lysosomal adaptor, MAPK and MTOR activator 5
NCBI Official Symbol	LAMTOR5
NCBI Official Synonym Symbols	XIP; HBXIP
UniProt Protein Name	Ragulator complex protein LAMTOR5
UniProt Synonym Protein Names	Hepatitis B virus X-interacting protein; HBV X-interacting protein; HBX-interacting protein; Late endosomal/lysosomal adaptor and MAPK and MTOR activator 5
Protein Family	Ragulator complex protein
UniProt Gene Name	LAMTOR5
UniProt Synonym Gene Names	HBXIP; XIP; HBV X-interacting protein; HBX-interacting protein
UniProt Entry Name	LTOR5_HUMAN
NCBI Protein Information	ragulator complex protein LAMTOR5
NCBI Summary for LAMTOR5	This gene encodes a protein that specifically complexes with the C-terminus of hepatitis B virus X protein (HBx). The function of this protein is to negatively regulate HBx activity and thus to alter the replication life cycle of the virus. [provided by RefSeq, Jul 2008]
UniProt Comments for LAMTOR5	HBXIP: When complexed to BIRC5, interferes with apoptosome assembly, preventing recruitment of pro-caspase-9 to oligomerized APAF1, thereby selectively suppressing apoptosis initiated via the mitochondrial/cytochrome c pathway. Down-regulates hepatitis B virus (HBV) replication. Belongs to the HBXIP family. Protein type: DNA replication; Apoptosis Chromosomal Location of Human Ortholog: 1p13.3 Cellular Component: lysosome; cytosol Molecular Function: protein binding; guanyl-nucleotide exchange factor activity; protein complex scaffold Biological Process: response to virus; negative regulation of caspase activity; viral genome replication; regulation of cell size; positive regulation of TOR signaling pathway; negative regulation of apoptosis; positive regulation of GTPase activity
Research Articles on LAMTOR5	**1.** HBXIP promotes the migration of breast cancer cells through modulating microtubule acetylation mediated by GCN5.
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