RPL38 siRNA – 60s Ribosomal Protein L38 (Human)

PRODUCT OVERVIEW

Product Name	RPL38, siRNA
Full Product Name	RPL38 siRNA (Human)
Product Gene Name	RPL38 sirna
Product Synonym Names	60S ribosomal protein L38
Host	Synthetic
Species Reactivity	Human
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	RPL38 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	8,218 Da
OMIM	604182
3D Structure	ModBase 3D Structure for P63173
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 RPL38 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 RPL38 sirna	RNA Interference (RNAi)
Related Product Information for RPL38 sirna	MBS8219463 is an siRNA targeting RPL38. Also known as RPL38 siRNA (Human). Reactive in Human. Host: Synthetic. siRNA to inhibit RPL38 expression using RNA interference
Other Notes	Small volumes of RPL38 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 RPL38. It may not necessarily be applicable to this product.

NCBI GI #	4506645
NCBI GeneID	6169
NCBI Accession #	NP_000990.1
UniProt Primary Accession #	P63173
UniProt Secondary Accession #	P23411; B2R5A8
UniProt Related Accession #	P63173
GenBank Nucleotide #	NM_000999.3
NCBI Official Full Name	60S ribosomal protein L38
NCBI Official Synonym Full Names	ribosomal protein L38
NCBI Official Symbol	RPL38
NCBI Official Synonym Symbols	L38
UniProt Protein Name	60S ribosomal protein L38
Protein Family	60S ribosomal protein
UniProt Gene Name	RPL38
UniProt Entry Name	RL38_HUMAN
NCBI Protein Information	60S ribosomal protein L38
NCBI Summary for RPL38	Ribosomes, the organelles that catalyze protein synthesis, consist of a small 40S subunit and a large 60S subunit. Together these subunits are composed of 4 RNA species and approximately 80 structurally distinct proteins. This gene encodes a ribosomal protein that is a component of the 60S subunit. The protein belongs to the L38E family of ribosomal proteins. It is located in the cytoplasm. Alternative splice variants have been identified, both encoding the same protein. As is typical for genes encoding ribosomal proteins, there are multiple processed pseudogenes of this gene dispersed through the genome, including one located in the promoter region of the type 1 angiotensin II receptor gene. [provided by RefSeq, Jul 2008]
UniProt Comments for RPL38	RPL38: a ribosomal protein that is a component of the 60S subunit. The protein belongs to the L38E family of ribosomal proteins. It is located in the cytoplasm. Alternative splice variants have been identified, both encoding the same protein. As is typical for genes encoding ribosomal proteins, there are multiple processed pseudogenes of this gene dispersed through the genome, including one located in the promoter region of the type 1 angiotensin II receptor gene. [provided by RefSeq, Jul 2008] Protein type: Translation; Ribosomal Chromosomal Location of Human Ortholog: 17q25.1 Cellular Component: focal adhesion; cytosol Molecular Function: structural constituent of ribosome; RNA binding Biological Process: SRP-dependent cotranslational protein targeting to membrane; ossification; viral reproduction; translation; translational termination; middle ear morphogenesis; viral infectious cycle; regulation of translation; sensory perception of sound; cellular protein metabolic process; translational elongation; axial mesoderm development; translational initiation; mRNA catabolic process, nonsense-mediated decay; viral transcription; gene expression; skeletal development
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