TPP2 siRNA – Tripeptidyl-Peptidase 2 (Rat)

PRODUCT OVERVIEW

Product Name	TPP2, siRNA
Full Product Name	TPP2 siRNA (Rat)
Product Gene Name	TPP2 sirna
Product Synonym Names	Tripeptidyl-peptidase 2; TPP-2; Tripeptidyl aminopeptidase; Tripeptidyl-peptidase II; TPP-II
Host	Synthetic
Species Reactivity	Rat
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	TPP2 siRNA (Rat) 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	138,293 Da
3D Structure	ModBase 3D Structure for Q64560
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 rat TPP2 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 TPP2 sirna	RNA Interference (RNAi)
Related Product Information for TPP2 sirna	MBS8207442 is an siRNA targeting TPP2. Also known as TPP2 siRNA (Rat). Reactive in Rat. Host: Synthetic. siRNA to inhibit TPP2 expression using RNA interference
Other Notes	Small volumes of TPP2 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 TPP2. It may not necessarily be applicable to this product.

NCBI GI #	13592121
NCBI GeneID	81815

NCBI Accession #	NP_112399.1
UniProt Primary Accession #	Q64560
UniProt Related Accession #	Q64560
GenBank Nucleotide #	NM_031137.1
NCBI Official Full Name	tripeptidyl-peptidase 2
NCBI Official Synonym Full Names	tripeptidyl peptidase II
NCBI Official Symbol	Tpp2
NCBI Official Synonym Symbols	TPP-2
UniProt Protein Name	Tripeptidyl-peptidase 2
UniProt Synonym Protein Names	Tripeptidyl aminopeptidase; Tripeptidyl-peptidase II; TPP-II
Protein Family	Probable thylakoidal processing peptidase
UniProt Gene Name	Tpp2
UniProt Synonym Gene Names	TPP-2; TPP-II
UniProt Entry Name	TPP2_RAT
NCBI Protein Information	tripeptidyl-peptidase 2
NCBI Summary for TPP2	extralysosomal enzyme involved in degrading peptides generated by the proteasome [RGD, Feb 2006]
UniProt Comments for TPP2	TPP2: Component of the proteolytic cascade acting downstream of the 26S proteasome in the ubiquitin-proteasome pathway. May be able to complement the 26S proteasome function to some extent under conditions in which the latter is inhibited. Belongs to the peptidase S8 family. Protein type: Protease; EC 3.4.14.10 Cellular Component: nucleoplasm; cytoplasm; nucleus Molecular Function: tripeptidyl-peptidase activity; serine-type endopeptidase activity; aminopeptidase activity; peptide binding Biological Process: proteolysis
Research Articles on TPP2	**1.** Changes in the activity of TPP II play an important role in the pathogenesis of blood vessels wall in atherosclerosis and arterial hypertension.
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