MAP1A siRNA – Microtubule-Associated Protein 1a (Rat)

PRODUCT OVERVIEW

Product Name	MAP1A, siRNA
Full Product Name	MAP1A siRNA (Rat)
Product Gene Name	MAP1A sirna
Product Synonym Names	MTAP1A; Microtubule-associated protein 1A; MAP-1A
Host	Synthetic
Species Reactivity	Rat
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	MAP1A 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	299,531 Da
3D Structure	ModBase 3D Structure for P34926
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 MAP1A 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 MAP1A sirna	RNA Interference (RNAi)
Related Product Information for MAP1A sirna	MBS8237702 is an siRNA targeting MAP1A. Also known as MAP1A siRNA (Rat). Reactive in Rat. Host: Synthetic. siRNA to inhibit MAP1A expression using RNA interference
Other Notes	Small volumes of MAP1A 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 MAP1A. It may not necessarily be applicable to this product.

NCBI GI #	13591886

NCBI GeneID	25152
NCBI Accession #	NP_112257.1
UniProt Primary Accession #	P34926
UniProt Related Accession #	P34926
GenBank Nucleotide #	NM_030995.1
NCBI Official Full Name	microtubule-associated protein 1A
NCBI Official Synonym Full Names	microtubule-associated protein 1A
NCBI Official Symbol	Map1a
NCBI Official Synonym Symbols	Mtap1a
UniProt Protein Name	Microtubule-associated protein 1A
Protein Family	Methionine aminopeptidase
UniProt Gene Name	Map1a
UniProt Synonym Gene Names	Mtap1a; MAP-1A
UniProt Entry Name	MAP1A_RAT
NCBI Protein Information	microtubule-associated protein 1A
NCBI Summary for MAP1A	structural protein involved in the filamentous cross-bridging between microtubules and other cytoskeletal elements; may play a role in stabilizing the mature neuronal cytoskeleton [RGD, Feb 2006]
UniProt Comments for MAP1A	MAP1A: structural protein involved in the filamentous cross- bridging between microtubules and other skeletal elements. Various serine residues may be phosphorylated by PKA. Protein type: Motility/polarity/chemotaxis; Cytoskeletal Cellular Component: microtubule; microtubule associated complex; photoreceptor outer segment; cytoplasm; cytosol Molecular Function: collagen binding; protein binding; microtubule binding; actin binding Biological Process: sensory perception of sound; negative regulation of microtubule depolymerization; photoreceptor cell maintenance; microtubule cytoskeleton organization and biogenesis
Research Articles on MAP1A	**1.** Disruption of MAP1A could be a very early manifestation of amyloid-beta-mediated synaptic dysfunction--one that presages the clinical onset of Alzheimer's disease by years.
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