MMP7 siRNA – Matrilysin (Rat)

PRODUCT OVERVIEW

Product Name	MMP7, siRNA
Full Product Name	MMP7 siRNA (Rat)
Product Gene Name	MMP7 sirna
Product Synonym Names	MMP-7; Matrilysin; Matrin; Matrix metalloproteinase-7; MMP-7; Pump-1 protease; Uterine metalloproteinase
Host	Synthetic
Species Reactivity	Rat
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	MMP7 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	29,885 Da
3D Structure	ModBase 3D Structure for P50280
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 MMP7 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 MMP7 sirna	RNA Interference (RNAi)
Related Product Information for MMP7 sirna	MBS8206938 is an siRNA targeting MMP7. Also known as MMP7 siRNA (Rat). Reactive in Rat. Host: Synthetic. siRNA to inhibit MMP7 expression using RNA interference
Other Notes	Small volumes of MMP7 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 MMP7. It may not necessarily be applicable to this product.

NCBI GI #	6981214
NCBI GeneID	25335

NCBI Accession #	NP_036996.1
UniProt Primary Accession #	P50280
UniProt Related Accession #	P50280
GenBank Nucleotide #	NM_012864.2
NCBI Official Full Name	matrilysin
NCBI Official Synonym Full Names	matrix metallopeptidase 7
NCBI Official Symbol	Mmp7
NCBI Official Synonym Symbols	MPMM
UniProt Protein Name	Matrilysin
UniProt Synonym Protein Names	Matrin; Matrix metalloproteinase-7; MMP-7; Pump-1 protease; Uterine metalloproteinase
Protein Family	Matrilysin
UniProt Gene Name	Mmp7
UniProt Synonym Gene Names	Mmp-7; MMP-7
UniProt Entry Name	MMP7_RAT
NCBI Protein Information	matrilysin
NCBI Summary for MMP7	enzyme that cleaves the alpha 2(I) chain of rat gelatin [RGD, Feb 2006]
UniProt Comments for MMP7	Degrades casein, gelatins of types I, III, IV, and V, and fibronectin. Activates procollagenase ().
Research Articles on MMP7	**1.** Expression of MMP-7, c-Jun and c-Fos were increased in skin photoaging.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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