PAPPA siRNA – Pappalysin-1 (Mouse)

PRODUCT OVERVIEW

Product Name	PAPPA, siRNA
Full Product Name	PAPPA siRNA (Mouse)
Product Gene Name	PAPPA sirna
Product Synonym Names	Pappalysin-1; Insulin-like growth factor-dependent IGF-binding protein 4 protease; IGF-dependent IGFBP-4 protease; IGFBP-4ase; Pregnancy-associated plasma protein A; PAPP-A
Host	Synthetic
Species Reactivity	Mouse
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	PAPPA siRNA (Mouse) 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	184,839 Da
3D Structure	ModBase 3D Structure for Q8R4K8
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 mouse PAPPA 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 PAPPA sirna	RNA Interference (RNAi)
Related Product Information for PAPPA sirna	MBS8201813 is an siRNA targeting PAPPA. Also known as PAPPA siRNA (Mouse). Reactive in Mouse. Host: Synthetic. siRNA to inhibit PAPPA expression using RNA interference
Other Notes	Small volumes of PAPPA 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 PAPPA. It may not necessarily be applicable to this product.

NCBI GI #	59676577

NCBI GeneID	18491
NCBI Accession #	NP_067337.1
UniProt Primary Accession #	Q8R4K8
UniProt Secondary Accession #	Q80VW3; Q80YY1; Q8K423; Q8R4K7; Q9ES06; Q9JK57
UniProt Related Accession #	Q8R4K8
GenBank Nucleotide #	NM_021362.1
NCBI Official Full Name	pappalysin-1
NCBI Official Synonym Full Names	pregnancy-associated plasma protein A
NCBI Official Symbol	Pappa
NCBI Official Synonym Symbols	PAG1; PAPP-A; IGFBP-4ase; 8430414N03Rik
UniProt Protein Name	Pappalysin-1
UniProt Synonym Protein Names	Insulin-like growth factor-dependent IGF-binding protein 4 protease; IGF-dependent IGFBP-4 protease; IGFBP-4ase; Pregnancy-associated plasma protein A; PAPP-A
Protein Family	Pappalysin
UniProt Gene Name	Pappa
UniProt Synonym Gene Names	IGF-dependent IGFBP-4 protease; IGFBP-4ase; PAPP-A
UniProt Entry Name	PAPP1_MOUSE
NCBI Protein Information	pappalysin-1
UniProt Comments for PAPPA	PAPPA: Metalloproteinase which specifically cleaves IGFBP-4 and IGFBP-5, resulting in release of bound IGF. Cleavage of IGFBP-4 is dramatically enhanced by the presence of IGF, whereas cleavage of IGFBP-5 is slightly inhibited by the presence of IGF. Belongs to the peptidase M43B family. Protein type: Secreted, signal peptide; EC 3.4.24.79; Secreted; Protease Cellular Component: extracellular space; membrane; extracellular region Molecular Function: peptidase activity; metallopeptidase activity; hydrolase activity; metal ion binding; endopeptidase activity Biological Process: response to glucocorticoid stimulus; cell differentiation; proteolysis
Research Articles on PAPPA	**1.** tissue-specific expression differentially affected during aging
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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