LXN siRNA – Latexin (Mouse)

PRODUCT OVERVIEW

Product Name	LXN, siRNA
Full Product Name	LXN siRNA (Mouse)
Product Gene Name	LXN sirna
Product Synonym Names	Latexin; Endogenous carboxypeptidase inhibitor; ECI; Tissue carboxypeptidase inhibitor; TCI
Host	Synthetic
Species Reactivity	Mouse
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	LXN 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	25,492 Da
3D Structure	ModBase 3D Structure for P70202
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 LXN 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 LXN sirna	RNA Interference (RNAi)
Related Product Information for LXN sirna	MBS8223806 is an siRNA targeting LXN. Also known as LXN siRNA (Mouse). Reactive in Mouse. Host: Synthetic. siRNA to inhibit LXN expression using RNA interference
Other Notes	Small volumes of LXN 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 LXN. It may not necessarily be applicable to this product.

NCBI GI #	31980632

NCBI GeneID	17035
NCBI Accession #	NP_058033.2
UniProt Primary Accession #	P70202
UniProt Secondary Accession #	Q3UDQ0; Q8CCS8
UniProt Related Accession #	P70202
GenBank Nucleotide #	NM_016753.4
NCBI Official Full Name	latexin
NCBI Official Synonym Full Names	latexin
NCBI Official Symbol	Lxn
UniProt Protein Name	Latexin
UniProt Synonym Protein Names	Endogenous carboxypeptidase inhibitor; ECI; Tissue carboxypeptidase inhibitor; TCI
Protein Family	Latexin
UniProt Gene Name	Lxn
UniProt Synonym Gene Names	ECI; TCI
UniProt Entry Name	LXN_MOUSE
NCBI Protein Information	latexin
UniProt Comments for LXN	LXN: Hardly reversible, non-competitive, and potent inhibitor of CPA1, CPA2 and CPA4. Belongs to the protease inhibitor I47 (latexin) family. Cellular Component: cytoplasm Molecular Function: metalloendopeptidase inhibitor activity; enzyme inhibitor activity; heparin binding; protease inhibitor activity Biological Process: negative regulation of peptidase activity; inflammatory response; detection of temperature stimulus involved in sensory perception of pain
Research Articles on LXN	**1.** Rps3 knockdown increased the radiation sensitivity of FDC-P1, confirming that the mechanism of action of Lxn is mediated by Rps3 pathway.
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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