MAX siRNA – Protein Max Isoform G (Human)

PRODUCT OVERVIEW

Product Name	MAX, siRNA
Full Product Name	MAX siRNA (Human)
Product Gene Name	MAX sirna
Product Synonym Names	BHLHD4; Protein max; Class D basic helix-loop-helix protein 4; bHLHd4; Myc-associated factor X
Host	Synthetic
Species Reactivity	Human
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	MAX siRNA (Human) 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	9,599 Da
OMIM	154950
3D Structure	ModBase 3D Structure for P61244
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 human MAX 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 MAX sirna	RNA Interference (RNAi)
Related Product Information for MAX sirna	MBS8202559 is an siRNA targeting MAX. Also known as MAX siRNA (Human). Reactive in Human. Host: Synthetic. siRNA to inhibit MAX expression using RNA interference
Other Notes	Small volumes of MAX 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 MAX. It may not necessarily be applicable to this product.

NCBI GI #	402794193
NCBI GeneID	4149
NCBI Accession #	NP_001257997.1
UniProt Primary Accession #	P61244
UniProt Secondary Accession #	P25912; P52163; Q14803; Q96CY8; A6NH73; A8K265; A8K4G4; A8K824
UniProt Related Accession #	P61244
GenBank Nucleotide #	NM_001271068.1
NCBI Official Full Name	protein max isoform g
NCBI Official Synonym Full Names	MYC associated factor X
NCBI Official Symbol	MAX
NCBI Official Synonym Symbols	bHLHd4
UniProt Protein Name	Protein max
UniProt Synonym Protein Names	Class D basic helix-loop-helix protein 4; bHLHd4; Myc-associated factor X
Protein Family	Protein max
UniProt Gene Name	MAX
UniProt Synonym Gene Names	BHLHD4; bHLHd4
UniProt Entry Name	MAX_HUMAN
NCBI Protein Information	protein max
NCBI Summary for MAX	The protein encoded by this gene is a member of the basic helix-loop-helix leucine zipper (bHLHZ) family of transcription factors. It is able to form homodimers and heterodimers with other family members, which include Mad, Mxi1 and Myc. Myc is an oncoprotein implicated in cell proliferation, differentiation and apoptosis. The homodimers and heterodimers compete for a common DNA target site (the E box) and rearrangement among these dimer forms provides a complex system of transcriptional regulation. Mutations of this gene have been reported to be associated with hereditary pheochromocytoma. A pseudogene of this gene is located on the long arm of chromosome 7. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Aug 2012]
UniProt Comments for MAX	MAX: a transcription factor. Forms a DNA- binding protein complex with MYC or MAD. The MYC-MAX complex is a transcriptional activator, whereas the MAD-MAX complex is a repressor. CPG methylation of the recognition site greatly inhibits DNA binding, suggesting that DNA methylation may regulate the MYC/MAX complex in vivo. May repress transcription via the recruitment of a chromatin remodeling complex containing H3-K9 histone methyltransferase activity. Three alternatively spliced isoforms have been reported. Protein type: DNA-binding; Transcription factor Chromosomal Location of Human Ortholog: 14q23 Cellular Component: nucleoplasm; PML body; cytoplasm; dendrite; nucleus Molecular Function: protein binding; protein homodimerization activity; sequence-specific DNA binding; protein heterodimerization activity; transcription coactivator activity; protein complex binding; transcription cofactor activity; transcription factor activity Biological Process: transcription from RNA polymerase II promoter; neuron apoptosis; regulation of transcription, DNA-dependent; retina development in camera-type eye; protein complex assembly; response to axon injury; cellular response to starvation; response to insulin stimulus
Research Articles on MAX	**1.** MAX mutations remain unusual events in Swedish patients with pheochromocytoma and paraganglioma tumours.

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.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/human-sirna/max/8202559