CNTF siRNA – Ciliary Neurotrophic Factor (Mouse)

PRODUCT OVERVIEW

Product Name	CNTF, siRNA
Full Product Name	CNTF siRNA (Mouse)
Product Gene Name	CNTF sirna
Product Synonym Names	Ciliary neurotrophic factor; CNTF
Host	Synthetic
Species Reactivity	Mouse
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	CNTF 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	22,587 Da
3D Structure	ModBase 3D Structure for P51642
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 CNTF 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 CNTF sirna	RNA Interference (RNAi)
Related Product Information for CNTF sirna	MBS8239797 is an siRNA targeting CNTF. Also known as CNTF siRNA (Mouse). Reactive in Mouse. Host: Synthetic. siRNA to inhibit CNTF expression using RNA interference
Other Notes	Small volumes of CNTF 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 CNTF. It may not necessarily be applicable to this product.

NCBI GI #	25952141

NCBI GeneID	12803
NCBI Accession #	NP_740756.1
UniProt Primary Accession #	P51642
UniProt Related Accession #	P51642
GenBank Nucleotide #	NM_170786.2
NCBI Official Full Name	ciliary neurotrophic factor
NCBI Official Synonym Full Names	ciliary neurotrophic factor
NCBI Official Symbol	Cntf
NCBI Official Synonym Symbols	AI429687
UniProt Protein Name	Ciliary neurotrophic factor
Protein Family	Ciliary neurotrophic factor
UniProt Gene Name	Cntf
UniProt Synonym Gene Names	CNTF
UniProt Entry Name	CNTF_MOUSE
NCBI Protein Information	ciliary neurotrophic factor
NCBI Summary for CNTF	The protein encoded by this gene is a polypeptide hormone whose actions appear to be restricted to the nervous system where it promotes neurotransmitter synthesis and neurite outgrowth in certain neuronal populations. The protein is a potent survival factor for neurons and oligodendrocytes, and it may be involved in reducing tissue destruction during inflammatory attacks. A read-through transcript variant composed of Zfp91 and Cntf sequences has been identified, but it is thought to be non-coding. Read-through transcription of Zfp91 and Cntf has been observed in both human and mouse. [provided by RefSeq, Aug 2008]
UniProt Comments for CNTF	CNTF: CNTF is a survival factor for various neuronal cell types. Seems to prevent the degeneration of motor axons after axotomy. Belongs to the CNTF family. Cellular Component: extracellular space; cell soma; axon; cytoplasm; cytosol; nucleus Molecular Function: interleukin-6 receptor binding; growth factor activity; cytokine activity; ciliary neurotrophic factor receptor binding Biological Process: negative regulation of photoreceptor cell differentiation; nervous system development; positive regulation of axon regeneration; protein heterooligomerization; multicellular organismal development; membrane hyperpolarization; positive regulation of hormone secretion; positive regulation of JAK-STAT cascade; JAK-STAT cascade; positive regulation of cell growth; positive regulation of tyrosine phosphorylation of Stat3 protein; positive regulation of phosphoinositide 3-kinase cascade; positive regulation of MAPKKK cascade; regulation of resting membrane potential; positive regulation of cell proliferation; neuron development; regulation of retinal cell programmed cell death; negative regulation of neuron apoptosis; cell differentiation; astrocyte activation; muscle morphogenesis; growth
Research Articles on CNTF	**1.** STAT3 can activate CNTF transcription because it bound to its promoter and FAK antagonist-induced CNTF was reduced by blocking STAT3.
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/mouse-sirna/cntf/8239797