# TXNL4B siRNA – Thioredoxin-Like Protein 4b (Human)

## PRODUCT OVERVIEW

| | |
|---|---|
| **Product Name** | TXNL4B, siRNA |
| **Full Product Name** | TXNL4B siRNA (Human) |
| **Product Gene Name** | TXNL4B sirna |
| **Product Synonym Names** | DIM2; DLP; Thioredoxin-like protein 4B; Dim1-like protein |
| **Host** | Synthetic |
| **Species Reactivity** | Human |
| **Form/Format** | Lyophilized powder |
| **Purity/Purification** | > 97% |
| **Specificity** | TXNL4B 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** | 17,015 Da |
| **3D Structure** | ModBase 3D Structure for Q9NX01 |
| **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 TXNL4B 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 TXNL4B sirna** | RNA Interference (RNAi) |
| **Related Product Information for TXNL4B sirna** | MBS8229079 is an siRNA targeting TXNL4B. Also known as TXNL4B siRNA (Human). Reactive in Human. Host: Synthetic. siRNA to inhibit TXNL4B expression using RNA interference |
| **Other Notes** | Small volumes of TXNL4B 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 TXNL4B. It may not necessarily be applicable to this product.

| | |
|---|---|
| **NCBI GI #** | 214832254 |

| | |
|---|---|
| **NCBI GeneID** | 54957 |
| **NCBI Accession #** | NP_001135789.1 |
| **UniProt Primary Accession #** | Q9NX01 |
| **UniProt Secondary Accession #** | D3DWS6 |
| **UniProt Related Accession #** | Q9NX01 |
| **GenBank Nucleotide #** | NM_001142317.1 |
| **NCBI Official Full Name** | thioredoxin-like protein 4B |
| **NCBI Official Synonym Full Names** | thioredoxin-like 4B |
| **NCBI Official Symbol** | TXNL4B |
| **NCBI Official Synonym Symbols** | DLP; Dim2 |
| **UniProt Protein Name** | Thioredoxin-like protein 4B |
| **UniProt Synonym Protein Names** | Dim1-like protein |
| **Protein Family** | Thioredoxin-like protein |
| **UniProt Gene Name** | TXNL4B |
| **UniProt Synonym Gene Names** | DIM2; DLP |
| **UniProt Entry Name** | TXN4B_HUMAN |
| **NCBI Protein Information** | thioredoxin-like protein 4B |
| **UniProt Comments for TXNL4B** | TXNL4B: Essential role in pre-mRNA splicing. Required in cell cycle progression for S/G(2) transition. Belongs to the DIM1 family.<br><br>Protein type: RNA-binding<br><br>Chromosomal Location of Human Ortholog: 16q22.2<br><br>Cellular Component: spliceosome; U4/U6 x U5 tri-snRNP complex; snRNP U5<br><br>Biological Process: mitosis; spliceosome assembly |
| **Research Articles on TXNL4B** | **1.** A crystal structure of TXNL4B was determined at 1.33 A resolution and refined to an Rwork of 0.13 and an Rfree of 0.18 with one native dimer in the asymmetric unit. |
| **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.<br><br>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/txnl4b/8229079