# TEKT3 siRNA – Tektin-3 (Mouse)

## PRODUCT OVERVIEW

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| **Product Name** | TEKT3, siRNA |
| **Full Product Name** | TEKT3 siRNA (Mouse) |
| **Product Gene Name** | TEKT3 sirna |
| **Product Synonym Names** | Tektin-3 |
| **Host** | Synthetic |
| **Species Reactivity** | Mouse |
| **Form/Format** | Lyophilized powder |
| **Purity/Purification** | > 97% |
| **Specificity** | TEKT3 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** | 56,673 Da |
| **3D Structure** | ModBase 3D Structure for Q6X6Z7 |
| **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 TEKT3 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 TEKT3 sirna** | RNA Interference (RNAi) |
| **Related Product Information for TEKT3 sirna** | MBS8226038 is an siRNA targeting TEKT3. Also known as TEKT3 siRNA (Mouse). Reactive in Mouse. Host: Synthetic. siRNA to inhibit TEKT3 expression using RNA interference |
| **Other Notes** | Small volumes of TEKT3 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 TEKT3. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 62078759 |

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| **NCBI GeneID** | 71062 |
| **NCBI Accession #** | NP_081936.1 |
| **UniProt Primary Accession #** | Q6X6Z7 |
| **UniProt Related Accession #** | Q6X6Z7 |
| **GenBank Nucleotide #** | NM_027660.1 |
| **NCBI Official Full Name** | tektin-3 |
| **NCBI Official Synonym Full Names** | tektin 3 |
| **NCBI Official Symbol** | Tekt3 |
| **NCBI Official Synonym Symbols** | 4933407G07Rik |
| **UniProt Protein Name** | Tektin-3 |
| **Protein Family** | Tektin |
| **UniProt Gene Name** | Tekt3 |
| **UniProt Entry Name** | TEKT3_MOUSE |
| **NCBI Protein Information** | tektin-3 |
| **UniProt Comments for TEKT3** | TEKT3: Structural component of ciliary and flagellar microtubules. Forms filamentous polymers in the walls of ciliary and flagellar microtubules. Required for progressive sperm mobility. Belongs to the tektin family.<br><br>Cellular Component: microtubule; cytoskeleton; cell projection; cytoplasm; nucleus; acrosomal membrane; cilium<br><br>Biological Process: sperm motility |
| **Research Articles on TEKT3** | **1.** study reports the functional characterization of tektin 3 (TEKT3) in spermatozoa, flagellar motility, and male reproductive physiology |
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