# KIF27 siRNA – Kinesin-Like Protein KIF27 (Rat)

## PRODUCT OVERVIEW

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| **Product Name** | KIF27, siRNA |
| **Full Product Name** | KIF27 siRNA (Rat) |
| **Product Gene Name** | KIF27 sirna |
| **Product Synonym Names** | Kinesin-like protein KIF27 |
| **Host** | Synthetic |
| **Species Reactivity** | Rat |
| **Form/Format** | Lyophilized powder |
| **Purity/Purification** | > 97% |
| **Specificity** | KIF27 siRNA (Rat) 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** | 158,880 Da |
| **3D Structure** | ModBase 3D Structure for Q7M6Z5 |
| **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 rat KIF27 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 KIF27 sirna** | RNA Interference (RNAi) |
| **Related Product Information for KIF27 sirna** | MBS827265 is an siRNA targeting KIF27. Also known as KIF27 siRNA (Rat). Reactive in Rat. Host: Synthetic. siRNA to inhibit KIF27 expression using RNA interference |
| **Other Notes** | Small volumes of KIF27 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 KIF27. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 38016129 |
| **NCBI GeneID** | 246209 |

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| **NCBI Accession #** | NP_932167.1 |
| **UniProt Primary Accession #** | Q7M6Z5 |
| **UniProt Related Accession #** | Q7M6Z5 |
| **GenBank Nucleotide #** | NM_198050.1 |
| **NCBI Official Full Name** | kinesin-like protein KIF27 |
| **NCBI Official Synonym Full Names** | kinesin family member 27 |
| **NCBI Official Symbol** | Kif27 |
| **NCBI Official Synonym Symbols** | Krp5 |
| **UniProt Protein Name** | Kinesin-like protein KIF27 |
| **Protein Family** | Kinesin-like protein |
| **UniProt Gene Name** | Kif27 |
| **UniProt Entry Name** | KIF27_RAT |
| **NCBI Protein Information** | kinesin-like protein KIF27 |
| **NCBI Summary for KIF27** | participates in motile activities in a cell [RGD, Feb 2006] |
| **UniProt Comments for KIF27** | KIF27: Plays an essential role in motile ciliogenesis. Belongs to the kinesin-like protein family. KIF27 subfamily. 4 isoforms of the human protein are produced by alternative splicing.<br><br>Protein type: Microtubule-binding; Motor<br><br>Cellular Component: microtubule; kinesin complex; cytoplasm; cilium<br><br>Molecular Function: microtubule binding; ATPase activity; microtubule motor activity; ATP binding<br><br>Biological Process: smoothened signaling pathway; ventricular system development; metabolic process; cilium biogenesis; microtubule-based movement |
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