# TRIM7 siRNA – Tripartite Motif-Containing Protein 7 Isoform 4 (Human)

## PRODUCT OVERVIEW

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| **Product Name** | TRIM7, siRNA |
| **Full Product Name** | TRIM7 siRNA (Human) |
| **Product Gene Name** | TRIM7 sirna |
| **Product Synonym Names** | GNIP; RNF90; Tripartite motif-containing protein 7; Glycogenin-interacting protein; RING finger protein 90 |
| **Host** | Synthetic |
| **Species Reactivity** | Human |
| **Form/Format** | Lyophilized powder |
| **Purity/Purification** | > 97% |
| **Specificity** | TRIM7 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** | 23,700 Da |
| **OMIM** | 609315 |
| **3D Structure** | ModBase 3D Structure for Q9C029 |
| **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 TRIM7 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 TRIM7 sirna** | RNA Interference (RNAi) |
| **Related Product Information for TRIM7 sirna** | MBS8213869 is an siRNA targeting TRIM7. Also known as TRIM7 siRNA (Human). Reactive in Human. Host: Synthetic. siRNA to inhibit TRIM7 expression using RNA interference |
| **Other Notes** | Small volumes of TRIM7 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 TRIM7. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 16076875 |
| **NCBI GeneID** | 81786 |
| **NCBI Accession #** | NP_203128.1 |
| **UniProt Primary Accession #** | Q9C029 |
| **UniProt Secondary Accession #** | Q969F5; Q96F67; Q96J89; Q96J90; A2RUE4; D3DWR7 |
| **UniProt Related Accession #** | Q9C029 |
| **GenBank Nucleotide #** | NM_033342.3 |
| **NCBI Official Full Name** | tripartite motif-containing protein 7 isoform 4 |
| **NCBI Official Synonym Full Names** | tripartite motif containing 7 |
| **NCBI Official Symbol** | TRIM7 |
| **NCBI Official Synonym Symbols** | GNIP; RNF90 |
| **UniProt Protein Name** | Tripartite motif-containing protein 7 |
| **UniProt Synonym Protein Names** | Glycogenin-interacting protein; RING finger protein 90 |
| **Protein Family** | Tripartite motif-containing protein |
| **UniProt Gene Name** | TRIM7 |
| **UniProt Synonym Gene Names** | GNIP; RNF90 |
| **UniProt Entry Name** | TRIM7_HUMAN |
| **NCBI Protein Information** | tripartite motif-containing protein 7 |
| **NCBI Summary for TRIM7** | The protein encoded by this gene is a member of the tripartite motif (TRIM) family. The TRIM motif includes three zinc-binding domains, a RING, a B-box type 1, a B-box type 2, and a coiled-coil region. The protein localizes to both the nucleus and the cytoplasm, and may represent a participant in the initiation of glycogen synthesis. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2013] |
| **UniProt Comments for TRIM7** | TRIM7: is a member of the tripartite motif (TRIM) family. The TRIM motif includes three zinc-binding domains, a RING, a B-box type 1, a B-box type 2, and a coiled-coil region. The protein localizes to both the nucleus and the cytoplasm, and may represent a participant in the initiation of glycogen synthesis. Multiple transcript variants have been found for this gene, and some of them encode the same isoform. [provided by RefSeq, Jul 2008]<br><br>Protein type: Ubiquitin conjugating system<br><br>Chromosomal Location of Human Ortholog: 5q35.3<br><br>Cellular Component: cytoplasm; nucleus<br><br>Molecular Function: zinc ion binding |
| **Research Articles on TRIM7** | **1.** TRIM28 is a specific SUMO E3 ligase of interferon regulatory factor (IRF)7 and negatively regulates its activity and interferon (IFN)-based antiviral responses, in support of the expanding roles of TRIM proteins which regulate innate immunity. |
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