# SLC12A9 siRNA – Solute Carrier Family 12 Member 9 (Rat)

## PRODUCT OVERVIEW

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| **Product Name** | SLC12A9, siRNA |
| **Full Product Name** | SLC12A9 siRNA (Rat) |
| **Product Gene Name** | SLC12A9 sirna |
| **Product Synonym Names** | CCC6; Solute carrier family 12 member 9; Cation-chloride cotransporter 6 |
| **Host** | Synthetic |
| **Species Reactivity** | Rat |
| **Form/Format** | Lyophilized powder |
| **Purity/Purification** | > 97% |
| **Specificity** | SLC12A9 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** | 96,005 Da |
| **3D Structure** | ModBase 3D Structure for Q66HR0 |
| **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 SLC12A9 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 SLC12A9 sirna** | RNA Interference (RNAi) |
| **Related Product Information for SLC12A9 sirna** | MBS8235568 is an siRNA targeting SLC12A9. Also known as SLC12A9 siRNA (Rat). Reactive in Rat. Host: Synthetic. siRNA to inhibit SLC12A9 expression using RNA interference |
| **Other Notes** | Small volumes of SLC12A9 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 SLC12A9. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 19705533 |

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| **NCBI GeneID** | 171443 |
| **NCBI Accession #** | NP_599232.1 |
| **UniProt Primary Accession #** | Q66HR0 |
| **UniProt Secondary Accession #** | Q99NC8 |
| **UniProt Related Accession #** | Q66HR0 |
| **GenBank Nucleotide #** | NM_134405.1 |
| **NCBI Official Full Name** | solute carrier family 12 member 9 |
| **NCBI Official Synonym Full Names** | solute carrier family 12, member 9 |
| **NCBI Official Symbol** | Slc12a9 |
| **NCBI Official Synonym Symbols** | Ccc6; Cip1 |
| **UniProt Protein Name** | Solute carrier family 12 member 9 |
| **UniProt Synonym Protein Names** | Cation-chloride cotransporter 6 |
| **Protein Family** | Solute carrier family |
| **UniProt Gene Name** | Slc12a9 |
| **UniProt Synonym Gene Names** | Ccc6 |
| **UniProt Entry Name** | S12A9_RAT |
| **NCBI Protein Information** | solute carrier family 12 member 9 |
| **NCBI Summary for SLC12A9** | a putative cation-chloride cotransporter [RGD, Feb 2006] |
| **UniProt Comments for SLC12A9** | SLC12A9: May be an inhibitor of SLC12A1. Seems to correspond to a subunit of a multimeric transport system and thus, additional subunits may be required for its function (By similarity)<br><br>Protein type: Transporter; Membrane protein, multi-pass; Transporter, SLC family; Membrane protein, integral<br><br>Cellular Component: membrane; integral to membrane; plasma membrane<br><br>Molecular Function: amino acid transmembrane transporter activity<br><br>Biological Process: transmembrane transport |
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