# BARHL1 siRNA – Barh-Like 1 Homeobox Protein (Human)

## PRODUCT OVERVIEW

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| **Product Name** | BARHL1, siRNA |
| **Full Product Name** | BARHL1 siRNA (Human) |
| **Product Gene Name** | BARHL1 sirna |
| **Product Synonym Names** | BarH-like 1 homeobox protein |
| **Host** | Synthetic |
| **Species Reactivity** | Human |
| **Form/Format** | Lyophilized powder |
| **Purity/Purification** | > 97% |
| **Specificity** | BARHL1 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** | 35,074 Da |
| **OMIM** | 605211 |
| **3D Structure** | ModBase 3D Structure for Q9BZE3 |
| **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 BARHL1 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 BARHL1 sirna** | RNA Interference (RNAi) |
| **Related Product Information for BARHL1 sirna** | MBS8208506 is an siRNA targeting BARHL1. Also known as BARHL1 siRNA (Human). Reactive in Human. Host: Synthetic. siRNA to inhibit BARHL1 expression using RNA interference |
| **Other Notes** | Small volumes of BARHL1 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 BARHL1. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 14149728 |
| **NCBI GeneID** | 56751 |
| **NCBI Accession #** | NP_064448.1 |
| **UniProt Primary Accession #** | Q9BZE3 |
| **UniProt Secondary Accession #** | Q5T6V2; Q9NY88 |
| **UniProt Related Accession #** | Q9BZE3 |
| **GenBank Nucleotide #** | NM_020064.3 |
| **NCBI Official Full Name** | barH-like 1 homeobox protein |
| **NCBI Official Synonym Full Names** | BarH-like homeobox 1 |
| **NCBI Official Symbol** | BARHL1 |
| **UniProt Protein Name** | BarH-like 1 homeobox protein |
| **Protein Family** | BarH-like 1 homeobox protein |
| **UniProt Gene Name** | BARHL1 |
| **UniProt Entry Name** | BARH1_HUMAN |
| **NCBI Protein Information** | barH-like 1 homeobox protein |
| **UniProt Comments for BARHL1** | BARHL1: Belongs to the BAR homeobox family.<br><br>Protein type: Transcription factor; Motility/polarity/chemotaxis; Cell development/differentiation<br><br>Chromosomal Location of Human Ortholog: 9q34<br><br>Cellular Component: nucleus<br><br>Molecular Function: sequence-specific DNA binding<br><br>Biological Process: sensory perception of sound; transcription, DNA-dependent; midbrain development; neuron migration; positive regulation of transcription from RNA polymerase II promoter; negative regulation of neuron apoptosis |
| **Research Articles on BARHL1** | **1.** expression of Barhl1 decelerates tumor growth both in human and in murine medulloblastomas. |
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