BARHL1 siRNA – Barh-Like 1 Homeobox Protein (Mouse)

PRODUCT OVERVIEW

Product Name	BARHL1, siRNA
Full Product Name	BARHL1 siRNA (Mouse)
Product Gene Name	BARHL1 sirna
Product Synonym Names	BHX1; MBH2; BarH-like 1 homeobox protein; Bar-class homeodomain protein MBH2; BarH-related homeobox protein 1
Host	Synthetic
Species Reactivity	Mouse
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	BARHL1 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	35,136 Da
3D Structure	ModBase 3D Structure for P63157
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 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	MBS8208451 is an siRNA targeting BARHL1. Also known as BARHL1 siRNA (Mouse). Reactive in Mouse. 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.

NCBI GI #	255958266
NCBI GeneID	54422
NCBI Accession #	NP_001157658.1
UniProt Primary Accession #	P63157
UniProt Secondary Accession #	Q9JK26
UniProt Related Accession #	P63157
GenBank Nucleotide #	NM_001164186.1
NCBI Official Full Name	barH-like 1 homeobox protein
NCBI Official Synonym Full Names	BarH-like 1 (Drosophila)
NCBI Official Symbol	Barhl1
NCBI Official Synonym Symbols	MBH2; Dres115
UniProt Protein Name	BarH-like 1 homeobox protein
UniProt Synonym Protein Names	Bar-class homeodomain protein MBH2; BarH-related homeobox protein 1
Protein Family	BarH-like 1 homeobox protein
UniProt Gene Name	Barhl1
UniProt Synonym Gene Names	Bhx1; Mbh2
UniProt Entry Name	BARH1_MOUSE
NCBI Protein Information	barH-like 1 homeobox protein
UniProt Comments for BARHL1	BARHL1: Belongs to the BAR homeobox family. Protein type: Cell development/differentiation; Motility/polarity/chemotaxis; Transcription factor Cellular Component: nucleus Molecular Function: DNA binding; sequence-specific DNA binding Biological Process: transcription from RNA polymerase II promoter; sensory perception of sound; regulation of transcription, DNA-dependent; 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.** Given the important role of Barhl1 in brain development, it was proposed that perturbations of thyroid hormone - mediated transcriptional control of Barhl1 may play a role in the impaired neurodevelopment induced by hypothyroidism.
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