HES7 siRNA – Transcription Factor HES-7 (Mouse)

PRODUCT OVERVIEW

Product Name	HES7, siRNA
Full Product Name	HES7 siRNA (Mouse)
Product Gene Name	HES7 sirna
Product Synonym Names	Transcription factor HES-7; mHes7; Hairy and enhancer of split 7; bHLH factor Hes7
Host	Synthetic
Species Reactivity	Mouse
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	HES7 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	24,890 Da
3D Structure	ModBase 3D Structure for Q8BKT2
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 HES7 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 HES7 sirna	RNA Interference (RNAi)
Related Product Information for HES7 sirna	MBS8237741 is an siRNA targeting HES7. Also known as HES7 siRNA (Mouse). Reactive in Mouse. Host: Synthetic. siRNA to inhibit HES7 expression using RNA interference
Other Notes	Small volumes of HES7 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 HES7. It may not necessarily be applicable to this product.

NCBI GI #	61098129

NCBI GeneID	84653
NCBI Accession #	NP_149030.2
UniProt Primary Accession #	Q8BKT2
UniProt Secondary Accession #	Q99JA6; A3KPD3
UniProt Related Accession #	Q8BKT2
GenBank Nucleotide #	NM_033041.4
NCBI Official Full Name	transcription factor HES-7
NCBI Official Synonym Full Names	hairy and enhancer of split 7 (Drosophila)
NCBI Official Symbol	Hes7
NCBI Official Synonym Symbols	bHLHb37
UniProt Protein Name	Transcription factor HES-7
UniProt Synonym Protein Names	Hairy and enhancer of split 7; bHLH factor Hes7
Protein Family	Transcription factor
UniProt Gene Name	Hes7
UniProt Synonym Gene Names	mHes7
UniProt Entry Name	HES7_MOUSE
NCBI Protein Information	transcription factor HES-7
UniProt Comments for HES7	HES7: Transcriptional repressor. Represses transcription from both N box- and E box-containing promoters. May with HES1, cooperatively regulate somite formation in the presomitic mesoderm (PSM). May function as a segmentation clock, which is essential for coordinated somite segmentation. Defects in HES7 are the cause of spondylocostal dysostosis type 4 (SCDO4). A rare condition of variable severity characterized by vertebral and costal anomalies. The main feature include dwarfism, vertebral fusion, hemivertebrae, posterior rib fusion, reduced rib number, and other rib malformations. Cellular Component: nucleus Molecular Function: protein dimerization activity; DNA binding; transcription factor binding Biological Process: somitogenesis; Notch signaling pathway; transcription, DNA-dependent; regulation of transcription, DNA-dependent; multicellular organismal development; rhythmic process; negative regulation of transcription from RNA polymerase II promoter; regulation of somitogenesis; negative regulation of transcription, DNA-dependent; skeletal development
Research Articles on HES7	**1.** Lengthening the third Hes7 intron by 10 or 20 kb disrupts accurate RNA splicing and inactivates the gene.
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