IL22 siRNA – Interleukin-22 (Mouse)

PRODUCT OVERVIEW

Product Name	IL22, siRNA
Full Product Name	IL22 siRNA (Mouse)
Product Gene Name	IL22 sirna
Product Synonym Names	IL22A; ILTIF; ILTIFA; Interleukin-22; IL-22; IL-10-related T-cell-derived-inducible factor; IL-TIF; IL-TIF alpha; Interleukin-22a; IL-22a
Host	Synthetic
Species Reactivity	Mouse
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	IL22 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	20,106 Da
3D Structure	ModBase 3D Structure for Q9JJY9
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 IL22 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 IL22 sirna	RNA Interference (RNAi)
Related Product Information for IL22 sirna	MBS8211670 is an siRNA targeting IL22. Also known as IL22 siRNA (Mouse). Reactive in Mouse. Host: Synthetic. siRNA to inhibit IL22 expression using RNA interference
Other Notes	Small volumes of IL22 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 IL22. It may not necessarily be applicable to this product.

NCBI GI #	8393605

NCBI GeneID	50929
NCBI Accession #	NP_058667.1
UniProt Primary Accession #	Q9JJY9
UniProt Secondary Accession #	Q14BB3
UniProt Related Accession #	Q9JJY9
GenBank Nucleotide #	NM_016971.2
NCBI Official Full Name	interleukin-22
NCBI Official Synonym Full Names	interleukin 22
NCBI Official Symbol	Il22
NCBI Official Synonym Symbols	IL-22; Iltif; IL-22a; ILTIFa
UniProt Protein Name	Interleukin-22
UniProt Synonym Protein Names	IL-10-related T-cell-derived-inducible factor; IL-TIF; IL-TIF alpha; Interleukin-22a; IL-22a
Protein Family	Interleukin
UniProt Gene Name	Il22
UniProt Synonym Gene Names	Il22a; Iltif; Iltifa; IL-22; IL-TIF; IL-22a
UniProt Entry Name	IL22_MOUSE
NCBI Protein Information	interleukin-22
UniProt Comments for IL22	IL22: Cytokine that contributes to the inflammatory response in vivo. Belongs to the IL-10 family. Protein type: Secreted; Secreted, signal peptide; Cytokine Cellular Component: extracellular space; extracellular region Molecular Function: protein binding; cytokine activity Biological Process: regulation of tyrosine phosphorylation of Stat3 protein; negative regulation of inflammatory response; positive regulation of transcription from RNA polymerase II promoter
Research Articles on IL22	**1.** IL-22 is a myocardium-protective cytokine by inhibiting myocardial fibrosis.
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