KRTAP10-5 siRNA – Keratin-Associated Protein 10-5 (Human)

PRODUCT OVERVIEW

Product Name	KRTAP10-5, siRNA
Full Product Name	KRTAP10-5 siRNA (Human)
Product Gene Name	KRTAP10-5 sirna
Product Synonym Names	KAP10.5; KAP18-5; KRTAP10.5; KRTAP18-5; KRTAP18.5; Keratin-associated protein 10-5; High sulfur keratin-associated protein 10.5; Keratin-associated protein 10.5; Keratin-associated protein 18-5; Keratin-associated protein 18.5
Host	Synthetic
Species Reactivity	Human
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	KRTAP10-5 siRNA (Human) is a target-specific 19-23 nt siRNA oligo duplexes designed to knock down gene expression.
Preparation and Storage	Ships on blue ice. Store at -20 degree C for one year.
3D Structure	ModBase 3D Structure for P60370
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 KRTAP10-5 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 KRTAP10-5 sirna	RNA Interference (RNAi)
Related Product Information for KRTAP10-5 sirna	MBS829257 is an siRNA targeting KRTAP10-5. Also known as KRTAP10-5 siRNA (Human). Reactive in Human. Host: Synthetic. siRNA to inhibit KRTAP10-5 expression using RNA interference
Other Notes	Small volumes of KRTAP10-5 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 KRTAP10-5. It may not necessarily be applicable to this product.

NCBI GI #	215274018

NCBI GeneID	386680
NCBI Accession #	P60370.2
UniProt Primary Accession #	P60370
UniProt Secondary Accession #	Q0VAR7; Q0VAR8; Q70LJ3
UniProt Related Accession #	P60370
NCBI Official Full Name	Keratin-associated protein 10-5
NCBI Official Synonym Full Names	keratin associated protein 10-5
NCBI Official Symbol	KRTAP10-5
NCBI Official Synonym Symbols	KAP10.5; KAP18-5; KAP18.5; KRTAP10.5; KRTAP18-5; KRTAP18.1; KRTAP18.5
UniProt Protein Name	Keratin-associated protein 10-5
UniProt Synonym Protein Names	High sulfur keratin-associated protein 10.5; Keratin-associated protein 10.5; Keratin-associated protein 18-5; Keratin-associated protein 18.5
Protein Family	Keratin-associated protein
UniProt Gene Name	KRTAP10-5
UniProt Synonym Gene Names	KAP10.5; KAP18-5; KRTAP10.5; KRTAP18-5; KRTAP18.5
UniProt Entry Name	KR105_HUMAN
NCBI Protein Information	keratin-associated protein 10-5
NCBI Summary for KRTAP10-5	This is an intronless gene located in a cluster of related genes on the q arm of chromosome 21. The proteins encoded by these genes form disulfide bonds with cysteine residues in hair keratins, thereby contributing to the structure and stability of hair fibers. [provided by RefSeq, Apr 2014]
UniProt Comments for KRTAP10-5	KRTAP10-5: In the hair cortex, hair keratin intermediate filaments are embedded in an interfilamentous matrix, consisting of hair keratin-associated proteins (KRTAP), which are essential for the formation of a rigid and resistant hair shaft through their extensive disulfide bond cross-linking with abundant cysteine residues of hair keratins. The matrix proteins include the high- sulfur and high-glycine-tyrosine keratins. Belongs to the KRTAP type 10 family. Interacts with hair keratins Chromosomal Location of Human Ortholog: 21q22.3 Cellular Component: keratin filament
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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