KRTAP5-9 siRNA – Keratin-Associated Protein 5-9 (Human)

PRODUCT OVERVIEW

Product Name	KRTAP5-9, siRNA
Full Product Name	KRTAP5-9 siRNA (Human)
Product Gene Name	KRTAP5-9 sirna
Product Synonym Names	KAP5.9; KRN1; KRTAP5.9; UHSK1; Keratin-associated protein 5-9; Keratin cuticle. ultrahigh sulfur 1; Keratin ultra high-sulfur matrix protein A; Keratin-associated protein 5.9; UHS keratin A; UHS KerA; Ultrahigh sulfur keratin-associated protein 5.9
Host	Synthetic
Species Reactivity	Human
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	KRTAP5-9 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	16,276 Da
OMIM	148021
3D Structure	ModBase 3D Structure for P26371
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 KRTAP5-9 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 KRTAP5-9 sirna	RNA Interference (RNAi)
Related Product Information for KRTAP5-9 sirna	MBS8214727 is an siRNA targeting KRTAP5-9. Also known as KRTAP5-9 siRNA (Human). Reactive in Human. Host: Synthetic. siRNA to inhibit KRTAP5-9 expression using RNA interference
Other Notes	Small volumes of KRTAP5-9 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 KRTAP5-9. It may not necessarily be applicable to this product.

NCBI GI #	123702038
NCBI GeneID	3846
NCBI Accession #	NP_005544.4
UniProt Primary Accession #	P26371
UniProt Secondary Accession #	Q14564; Q3MIP8
UniProt Related Accession #	P26371
GenBank Nucleotide #	NM_005553.3
NCBI Official Full Name	keratin-associated protein 5-9
NCBI Official Synonym Full Names	keratin associated protein 5-9
NCBI Official Symbol	KRTAP5-9
NCBI Official Synonym Symbols	KRN1; KRTAP5-1; KRTAP5.9
UniProt Protein Name	Keratin-associated protein 5-9
UniProt Synonym Protein Names	Keratin, cuticle, ultrahigh sulfur 1; Keratin, ultra high-sulfur matrix protein A; Keratin-associated protein 5.9; UHS keratin A; UHS KerA; Ultrahigh sulfur keratin-associated protein 5.9
Protein Family	Keratin-associated protein
UniProt Gene Name	KRTAP5-9
UniProt Synonym Gene Names	KAP5.9; KRN1; KRTAP5.9; UHSK1; UHS KerA
UniProt Entry Name	KRA59_HUMAN
NCBI Protein Information	keratin-associated protein 5-9
UniProt Comments for KRTAP5-9	KRTAP5-9: In the hair cortex, hair keratin intermediate filaments are embedded in an interfilamentous matrix, consisting of hair keratin-associated protein (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 5 family. Chromosomal Location of Human Ortholog: 11q13.5 Cellular Component: keratin filament Molecular Function: protein binding Biological Process: epidermis development
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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