CSTA siRNA – Cystatin-A (Mouse)

PRODUCT OVERVIEW

Product Name	CSTA, siRNA
Full Product Name	CSTA siRNA (Mouse)
Product Gene Name	CSTA sirna
Product Synonym Names	Cystatin-A; Stefin-A
Host	Synthetic
Species Reactivity	Mouse
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	CSTA 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	10,929 Da
3D Structure	ModBase 3D Structure for P56567
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 CSTA 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 CSTA sirna	RNA Interference (RNAi)
Related Product Information for CSTA sirna	MBS829820 is an siRNA targeting CSTA. Also known as CSTA siRNA (Mouse). Reactive in Mouse. Host: Synthetic. siRNA to inhibit CSTA expression using RNA interference
Other Notes	Small volumes of CSTA 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 CSTA. It may not necessarily be applicable to this product.

NCBI GI #	84370296

NCBI GeneID	209294
NCBI Accession #	NP_001028411.1
UniProt Primary Accession #	P56567
UniProt Secondary Accession #	Q3UV05
UniProt Related Accession #	P56567
GenBank Nucleotide #	NM_001033239.3
NCBI Official Full Name	cystatin-A
NCBI Official Synonym Full Names	cystatin A1
NCBI Official Symbol	Csta1
NCBI Official Synonym Symbols	Csta
UniProt Protein Name	Cystatin-A
UniProt Synonym Protein Names	Cystatin-A1; Stefin-A
Protein Family	Carbon starvation protein
UniProt Gene Name	Csta
UniProt Synonym Gene Names	Csta1
UniProt Entry Name	CYTA_MOUSE
NCBI Protein Information	cystatin-A
UniProt Comments for CSTA	CSTA: This is an intracellular thiol proteinase inhibitor. Has an important role in desmosome-mediated cell-cell adhesion in the lower levels of the epidermis. Defects in CSTA are the cause of ichthyosis exfoliative autosomal recessive ichthyosis bullosa of Siemens-like (AREI). A form of congenital exfoliative ichthyosis, sharing some features with ichthyosis bullosa of Siemens and annular epidermolytic ichthyosis. AREI presents shortly after birth as dry, scaly skin over most of the body with coarse peeling of non- erythematous skin on the palms and soles, which is exacerbated by excessive moisture and minor trauma. Electron microscopy analysis of skin biopsies, reveals mostly normal-appearing upper layers of the epidermis, but prominent intercellular edema of the basal and suprabasal cell layers with aggregates of tonofilaments in the basal keratinocytes. Belongs to the cystatin family. Cellular Component: nucleoplasm; extracellular space; cytoplasm; cornified envelope; intracellular; nucleus Molecular Function: protein binding, bridging; protease binding; protease inhibitor activity; endopeptidase inhibitor activity; structural molecule activity; cysteine protease inhibitor activity Biological Process: negative regulation of peptidase activity
Research Articles on CSTA	**1.** analysis of a mouse model presenting a chromosomal deletion encompassing Csta and Stfa2l1
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