ADAM29 siRNA – Disintegrin and Metalloproteinase Domain-Containing Protein 29 Preproprotein (Human)

PRODUCT OVERVIEW

Product Name	ADAM29, siRNA
Full Product Name	ADAM29 siRNA (Human)
Product Gene Name	ADAM29 sirna
Product Synonym Names	Disintegrin and metalloproteinase domain-containing protein 29; ADAM 29; Cancer/testis antigen 73; CT73
Host	Synthetic
Species Reactivity	Human
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	ADAM29 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	89,460 Da
OMIM	604778
3D Structure	ModBase 3D Structure for Q9UKF5
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 ADAM29 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 ADAM29 sirna	RNA Interference (RNAi)
Related Product Information for ADAM29 sirna	MBS8204737 is an siRNA targeting ADAM29. Also known as ADAM29 siRNA (Human). Reactive in Human. Host: Synthetic. siRNA to inhibit ADAM29 expression using RNA interference
Other Notes	Small volumes of ADAM29 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 ADAM29. It may not necessarily be applicable to this product.

NCBI GI #	195232759
NCBI GeneID	11086
NCBI Accession #	NP_001124175.1
UniProt Primary Accession #	Q9UKF5
UniProt Secondary Accession #	Q4W5F3; Q9UHP1; Q9UKF3; Q9UKF4
UniProt Related Accession #	Q9UKF5
GenBank Nucleotide #	NM_001130703.1
NCBI Official Full Name	disintegrin and metalloproteinase domain-containing protein 29 preproprotein
NCBI Official Synonym Full Names	ADAM metallopeptidase domain 29
NCBI Official Symbol	ADAM29
NCBI Official Synonym Symbols	CT73; svph1
UniProt Protein Name	Disintegrin and metalloproteinase domain-containing protein 29
UniProt Synonym Protein Names	Cancer/testis antigen 73; CT73
Protein Family	Disintegrin and metalloproteinase domain-containing protein
UniProt Gene Name	ADAM29
UniProt Synonym Gene Names	ADAM 29; CT73
UniProt Entry Name	ADA29_HUMAN
NCBI Protein Information	disintegrin and metalloproteinase domain-containing protein 29
NCBI Summary for ADAM29	This gene encodes a member of the ADAM (a disintegrin and metalloprotease domain) family. Members of this family are membrane-anchored proteins structurally related to snake venom disintegrins, and have been implicated in a variety of biological processes involving cell-cell and cell-matrix interactions, including fertilization, muscle development, and neurogenesis. The protein encoded by this gene is highly expressed in testis and may be involved in human spermatogenesis. Alternative splicing results in multiple transcript variants that encode the same protein. [provided by RefSeq, Jul 2008]
UniProt Comments for ADAM29	ADAM29: a member of the ADAM (a disintegrin and metalloprotease domain) family of Cancer-Testis Antigen (CTAs). CTAs may play roles in embryonal development and tumor transformation or aspects of tumor progression. CTAs were once thought to be silenced in most normal adult tissues, with limited expression in fetal, placental, testis, and ovarian cells. These proteins are now known to be aberrantly expressed in various cancers and many are capable of eliciting humoral and cellular immune responses. Members of this family are membrane-anchored proteins structurally related to snake venom disintegrins. May be involved in spermatogenesis and fertilization. Seems to be a non catalytic metalloprotease-like protein. Has been found to be frequently mutated in melanoma. Mutations may play a role in melanoma progression and metastasis. Expressed in leukemias at the mRNA level. Three isoforms of the human protein are produced by alternative splicing. Protein type: Cancer Testis Antigen (CTA); Motility/polarity/chemotaxis; Membrane protein, integral; Protease Chromosomal Location of Human Ortholog: 4q34 Cellular Component: integral to plasma membrane Molecular Function: zinc ion binding; metallopeptidase activity; metalloendopeptidase activity Biological Process: spermatogenesis; proteolysis
Research Articles on ADAM29	**1.** PCMC expression of ADAM29, FLRT2, and SLC18A3 could be assessed as part of a routine screen to help identify individuals at risk of severe Obstructive sleep apnea in Asian populations

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