CTNND1 siRNA – Catenin Delta-1 Isoform 2 (Mouse)

PRODUCT OVERVIEW

Product Name	CTNND1, siRNA
Full Product Name	CTNND1 siRNA (Mouse)
Product Gene Name	CTNND1 sirna
Product Synonym Names	CATNS; KIAA0384; Catenin delta-1; Cadherin-associated Src substrate; CAS; p120 catenin; p120(ctn); p120(cas
Host	Synthetic
Species Reactivity	Mouse
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	CTNND1 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	102,565 Da
3D Structure	ModBase 3D Structure for P30999
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 CTNND1 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 CTNND1 sirna	RNA Interference (RNAi)
Related Product Information for CTNND1 sirna	MBS8216667 is an siRNA targeting CTNND1. Also known as CTNND1 siRNA (Mouse). Reactive in Mouse. Host: Synthetic. siRNA to inhibit CTNND1 expression using RNA interference
Other Notes	Small volumes of CTNND1 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 CTNND1. It may not necessarily be applicable to this product.

NCBI GI #	146219835

NCBI GeneID	12388
NCBI Accession #	NP_001078917.1
UniProt Primary Accession #	P30999
UniProt Secondary Accession #	Q3TSU9; Q80XQ4; Q8CHF8
UniProt Related Accession #	P30999
GenBank Nucleotide #	NM_001085448.1
NCBI Official Full Name	catenin delta-1 isoform 2
NCBI Official Synonym Full Names	catenin (cadherin associated protein), delta 1
NCBI Official Symbol	Ctnnd1
NCBI Official Synonym Symbols	P120; Catns; Ctnnd; AA409437; AU019353; mKIAA0384
UniProt Protein Name	Catenin delta-1
UniProt Synonym Protein Names	Cadherin-associated Src substrate; CAS; p120 catenin; p120(ctn); p120(cas)
Protein Family	Catenin
UniProt Gene Name	Ctnnd1
UniProt Synonym Gene Names	Catns; Kiaa0384; CAS; p120(ctn)
UniProt Entry Name	CTND1_MOUSE
NCBI Protein Information	catenin delta-1
UniProt Comments for CTNND1	CTNND1: an Arm repeat protein that interacts with varied components such as cadherin, small G proteins, kinases, and the Kaiso transcriptional repressor. A downstream modulator of Wnt/beta-catenin signaling pathway whose stability may be regulated downstream of Dsh. Required for the invasiveness of E-cadherin-deficient cells. A signal coordinator between cadherins and Rho-family GTPases to regulate cytoskeletal changes required during dendritic spine and synapse development. The association of catenins with cadherins produces a complex which is linked to the actin filament network, and which seems to be of primary importance for cadherins cell-adhesion properties. Thirty two splice-variant isoforms have been described. Protein type: Adaptor/scaffold; Actin-binding; Motility/polarity/chemotaxis; G protein regulator, misc.; Cell adhesion Cellular Component: tight junction; dendritic spine; zonula adherens; intercellular junction; cytosol; growth cone; cell-cell adherens junction; membrane; lamellipodium; cytoplasm; plasma membrane; synapse; midbody; nucleus Molecular Function: protein domain specific binding; protein binding; cadherin binding; cell adhesion molecule binding; protein phosphatase binding; protein kinase binding; receptor binding Biological Process: keratinocyte differentiation; cell-cell adhesion; Wnt receptor signaling pathway; regulation of transcription, DNA-dependent; transcription, DNA-dependent; salivary gland morphogenesis; cell adhesion; morphogenesis of a polarized epithelium
Research Articles on CTNND1	**1.** p120-catenin regulates REST and CoREST and modulates mouse embryonic stem cell differentiation.
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