CDC37 siRNA – Hsp90 Co-Chaperone Cdc37 (Rat)

PRODUCT OVERVIEW

Product Name	CDC37, siRNA
Full Product Name	CDC37 siRNA (Rat)
Product Gene Name	CDC37 sirna
Product Synonym Names	Hsp90 co-chaperone Cdc37; Hsp90 chaperone protein kinase-targeting subunit; p50Cdc37
Host	Synthetic
Species Reactivity	Rat
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	CDC37 siRNA (Rat) 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	44,510 Da
3D Structure	ModBase 3D Structure for Q63692
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 rat CDC37 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 CDC37 sirna	RNA Interference (RNAi)
Related Product Information for CDC37 sirna	MBS8233977 is an siRNA targeting CDC37. Also known as CDC37 siRNA (Rat). Reactive in Rat. Host: Synthetic. siRNA to inhibit CDC37 expression using RNA interference
Other Notes	Small volumes of CDC37 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 CDC37. It may not necessarily be applicable to this product.

NCBI GI #	16758570
NCBI GeneID	114562

NCBI Accession #	NP_446195.1
UniProt Primary Accession #	Q63692
UniProt Secondary Accession #	Q8CH95
UniProt Related Accession #	Q63692
GenBank Nucleotide #	NM_053743.1
NCBI Official Full Name	hsp90 co-chaperone Cdc37
NCBI Official Synonym Full Names	cell division cycle 37
NCBI Official Symbol	Cdc37
UniProt Protein Name	Hsp90 co-chaperone Cdc37
UniProt Synonym Protein Names	Hsp90 chaperone protein kinase-targeting subunit; p50Cdc37
Protein Family	Hsp90 co-chaperone
UniProt Gene Name	Cdc37
UniProt Entry Name	CDC37_RAT
NCBI Protein Information	hsp90 co-chaperone Cdc37
NCBI Summary for CDC37	may play a role in regulation of the cell cycle [RGD, Feb 2006]
UniProt Comments for CDC37	CDC37: a molecular chaperone that functions in cell signal transduction. Forms complexes with Hsp90 and a variety of protein kinases including CDK4, CDK6, SRC, RAF-1, MOK, as well as eIF2 alpha kinases. Also interacts with androgen receptor. It is thought to play a critical role in directing Hsp90 to its target kinases. Protein type: Chaperone Cellular Component: protein complex; cytoplasm; cytosol Molecular Function: protein C-terminus binding; protein kinase B binding; heat shock protein binding; chaperone binding; unfolded protein binding; mitogen-activated protein kinase kinase kinase binding; Hsp90 protein binding; kinase binding; protein kinase binding Biological Process: protein folding; protein stabilization; regulation of cell cycle
Research Articles on CDC37	**1.** C-terminal tail and determinants in the alphaE-helix of the catalytic domain allows the chaperones Hsp90 and Cdc37 to bind newly synthesized PKC beta II, a required event in the processing of PKC by phosphorylation
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