RDX siRNA – Radixin Isoform a (Mouse)

PRODUCT OVERVIEW

Product Name	RDX, siRNA
Full Product Name	RDX siRNA (Mouse)
Product Gene Name	RDX sirna
Product Synonym Names	Radixin; ESP10
Host	Synthetic
Species Reactivity	Mouse
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	RDX 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	68,543 Da
3D Structure	ModBase 3D Structure for P26043
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 RDX 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 RDX sirna	RNA Interference (RNAi)
Related Product Information for RDX sirna	MBS8218631 is an siRNA targeting RDX. Also known as RDX siRNA (Mouse). Reactive in Mouse. Host: Synthetic. siRNA to inhibit RDX expression using RNA interference
Other Notes	Small volumes of RDX 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 RDX. It may not necessarily be applicable to this product.

NCBI GI #	157277950

NCBI GeneID	19684
NCBI Accession #	NP_001098086.1
UniProt Primary Accession #	P26043
UniProt Secondary Accession #	Q3TS85; Q9QW27
UniProt Related Accession #	P26043
GenBank Nucleotide #	NM_001104616.1
NCBI Official Full Name	radixin isoform a
NCBI Official Synonym Full Names	radixin
NCBI Official Symbol	Rdx
NCBI Official Synonym Symbols	AA516625
UniProt Protein Name	Radixin
UniProt Synonym Protein Names	ESP10
Protein Family	Protein roadkill
UniProt Gene Name	Rdx
UniProt Entry Name	RADI_MOUSE
NCBI Protein Information	radixin
UniProt Comments for RDX	Radixin: a cytoskeletal protein of the ERM family which includes ezrin and moiesin. ERM proteins appear to function as cross-linkers between plasma membranes and actin-based cytoskeletons. May play a crucial role in the binding of the barbed end of actin filaments to the plasma membrane. Protein type: Motility/polarity/chemotaxis; Cytoskeletal Cellular Component: extracellular space; microvillus; focal adhesion; T-tubule; ruffle; stereocilium; cytoskeleton; cell-cell adherens junction; extrinsic to membrane; membrane; apical part of cell; lamellipodium; cytoplasm; plasma membrane; midbody; myelin sheath; cleavage furrow; filopodium Molecular Function: protein binding; cytoskeletal protein binding; actin binding Biological Process: microvillus biogenesis; apical protein localization; actin filament capping; barbed-end actin filament capping
Research Articles on RDX	**1.** These results indicate that radixin plays an important role in regulating P-glycoprotein localization and P-glycoprotein functional activity at the intestinal membrane.
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