

Product Data Sheet

ACTN2 siRNA (Human)

Catalog #	Source	Reactivity		Applications		
CRH0054	Synthetic	н		RNAi		
Description	siRNA	siRNA to inhibit ACTN2 expression using RNA interference				
Specificity	ACTN	ACTN2 siRNA (Human) is a target-specific 19-23 nt siRNA oligo duplexes designed to				
	knock	down gene expressi	on.			
Form	Lyoph	Lyophilized powder				
Gene Symbol	ACTN	ACTN2				
Alternative N	ames Alpha	Alpha-actinin-2; Alpha-actinin skeletal muscle isoform 2; F-actin cross-linking protein				
Entrez Gene	88 (Hu	88 (Human)				
SwissProt	P3560	P35609 (Human)				
Purity	> 97%	> 97%				
Quality Contr	ol Oligor	Oligonucleotide synthesis is monitored base by base through trityl analysis to ensure				
	appro	appropriate coupling efficiency. The oligo is subsequently purified by affinity-solid				
	phase	phase extraction. The annealed RNA duplex is further analyzed by mass				
	spectr	spectrometry to verify the exact composition of the duplex. Each lot is compared to				
	the pr	evious lot by mass s	pectrometry to	ensure maximum lot	-to-lot consistency.	
Components	We of	We offers pre-designed sets of 3 different target-specific siRNA oligo duplexes of				
	huma	human ACTN2 gene. Each vial contains 5 nmol of lyophilized siRNA. The duplexes				
	can be	can be transfected individually or pooled together to achieve knockdown of the				
	target	target gene, which is most commonly assessed by qPCR or western blot.				
	Com	ponent		15 nmol	30 nmol	
	ACTN	N2 siRNA (Human) - A	A	5 nmol x 1	5 nmol x 2	
	ACTN	N2 siRNA (Human) - E	3	5 nmol x 1	5 nmol x 2	

Application key: E- ELISA, WB- Western blot, IH- Immunohistochemistry, IF- Immunofluorescence, FC- Flow cytometry, IC-Immunocytochemistry, IP- Immunoprecipitation, ChIP- Chromatin Immunoprecipitation, EMSA- Electrophoretic Mobility Shift Assay, BL- Blocking, SE- Sandwich ELISA, CBE- Cell-based ELISA, RNAi- RNA interference Species reactivity key: H- Human, M- Mouse, R- Rat, B- Bovine, C- Chicken, D- Dog, G- Goat, Mk- Monkey, P- Pig, Rb-Rabbit, S- Sheep, Z- Zebrafish

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ACTN2 siRNA (Human) - C	5 nmol x 1	5 nmol x 2
Negative Control	2.5 nmol x 1	2.5 nmol x 2
DEPC Water	1 ml x 1	1 ml x 2

Directions for Use

We recommends transfection with 10 nM - 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 example, resuspend one tube of 5 nmol siRNA oligo in 250 μ l of DEPC water to get a final concentration of 20 μ M.

Plate	Final volume	Final concentration	siRNA (20 μM)	Lipofectamin
	of medium	of siRNA		2000
		100 nM	0.5 μl	0.25 μl
96-well	100 μl	50 nM	0.25 μl	0.25 μl
		10 nM	0.05 μl	0.25 μl
		100 nM	2.5 μl	1 µl
24-well	500 μl	50 nM	1.25 μl	1 µl
		10 nM	0.25 μl	1 µl
		100 nM	5 μl	2 µl
12-well	1 ml	50 nM	2.5 μl	2 µl
		10 nM	0.5 μl	2 µl
		100 nM	10 µl	5 µl
6-well	2 ml	50 nM	5 μl	5 µl
		10 nM	1 µl	5 µl

Storage/Stability

Shipped at 4 °C. Store at -20 °C for one year.

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