

# **Product Data Sheet**

## ACVR2A siRNA (Human)

Catalog #	Source	Reactivity	Applications		
CRH0058 5	Synthetic	Н	RNAi		
Description	siRNA	siRNA to inhibit ACVR2A expression using RNA interference			
Specificity	ACVR2	A siRNA (Human) is a	target-specific 19-23 nt siRNA c	oligo duplexes designed	
	to kno	to knock down gene expression.			
Form Lyophilized		lized powder	ed powder		
Gene Symbol	ACVR2	CVR2A			
Alternative Nam	nes ACVR2	ACVR2; Activin receptor type-2A; Activin receptor type IIA; ACTR-IIA; ACTRIIA			
Entrez Gene	92 (Hu	man)			
SwissProt P27037 (Human)					
Purity	ırity > 97%				
Quality Control	ality Control Oligonucleotide synthesis is monitored base by base through trityl analysis to er			h trityl analysis to ensure	
appropriate coupling efficiency. The oligo is subsequently purified by af			urified by affinity-solid		
	phase	phase extraction. The annealed RNA duplex is further analyzed by mass			
	spectro	spectrometry to verify the exact composition of the duplex. Each lot is compared to			
	the pre	evious lot by mass spe	ectrometry to ensure maximum	lot-to-lot consistency.	
Components	We off	We offers pre-designed sets of 3 different target-specific siRNA oligo duplexes of			
	humar	human ACVR2A 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.			
	Comp	oonent	15 nmol	30 nmol	
	ACVR	2A siRNA (Human) - A	5 nmol x 1	5 nmol x 2	
	ACVR	2A siRNA (Human) - E	5 nmol x 1	5 nmol x 2	
Gene Symbol Alternative Nam Entrez Gene SwissProt Purity Quality Control	Lyophi ACVR2 92 (Hu P2703 > 97% Oligon approp phase spectro the pro We off humar can be target <b>Comp</b> ACVR	lized powder A (A (; Activin receptor typ man) 7 (Human) 7 (Human) ucleotide synthesis is oriate coupling efficient extraction. The annea ometry to verify the e evious lot by mass spectra fers pre-designed sets a ACVR2A gene. Each transfected individua gene, which is most co conent 2A siRNA (Human) - A	e-2A; Activin receptor type IIA; A monitored base by base throug ncy. The oligo is subsequently pe aled RNA duplex is further analy exact composition of the duplex. ectrometry to ensure maximum of 3 different target-specific siR vial contains 5 nmol of lyophilized ally or pooled together to achieve ommonly assessed by qPCR or v 15 nmol A 5 nmol x 1	h trityl analysis to en urified by affinity-soli zed by mass Each lot is compared lot-to-lot consistency NA oligo duplexes of ed siRNA. The duplexe re knockdown of the western blot. <b>30 nmol</b> 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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	ACVR2A siRNA (Human) - C	5 nmol x 1 2.5 nmol x 1	5 nmol x 2 2.5 nmol x 2
DEPU WATER IMIXI IMIX/	Negative Control DEPC Water	2.5 minor x 1 1 ml x 1	2.5 minor 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  $\mu$ l of DEPC water to get a final concentration of 20  $\mu$ 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 μΙ	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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