

## **Product Data Sheet**

### AK1 siRNA (Rat)

Catalog #	Source	Reactivity	Applications		
CRR0021	Synthetic	R	RNAi		
Description	siRNA	to inhibit AK1 expres	ssion using RNA interference		
Specificity	AK1 s	iRNA (Rat) is a target-	-specific 19-23 nt siRNA oligo duple	exes designed to knock	
	down	gene expression.			
Form	Lyoph	ilized powder			
Gene Symbol	AK1	AK1			
Alternative N	ames Adeny	Adenylate kinase isoenzyme 1; AK 1; ATP-AMP transphosphorylase 1; ATP:AMP			
	phosp	ohotransferase; Aden	ylate monophosphate kinase; Myo	kinase	
Entrez Gene	24183	3 (Rat)			
SwissProt	P3906	P39069 (Rat)			
Purity	> 97%	> 97%			
Quality Contr	ol Oligoi	Oligonucleotide synthesis is monitored base by base through trityl analysis to ensure			
	appro	priate coupling efficient	ency. The oligo is subsequently pu	rified by affinity-solid	
	phase	phase extraction. The annealed RNA duplex is further analyzed by mass			
	spect	spectrometry to verify the exact composition of the duplex. Each lot is compared to			
	the pi	revious lot by mass sp	pectrometry to ensure maximum lo	ot-to-lot consistency.	
Components	We of	We offers pre-designed sets of 3 different target-specific siRNA oligo duplexes of rat			
	AK1 g	AK1 gene. Each vial contains 5 nmol of lyophilized siRNA. The duplexes can be			
	transf	transfected individually or pooled together to achieve knockdown of the target			
	gene,	gene, which is most commonly assessed by qPCR or western blot.			
	Com	ponent	15 nmol	30 nmol	
	AK1	siRNA (Rat) - A	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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AK1 siRNA (Rat) - B	5 nmol x 1	5 nmol x 2
AK1 siRNA (Rat) - 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  $\mu$ 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 μΙ
24-well	500 μl	50 nM	1.25 μl	1 μl
_		10 nM	0.25 μl	1 μΙ
		100 nM	5 µl	2 μΙ
12-well	1 ml	50 nM	2.5 μl	2 μΙ
		10 nM	0.5 μl	2 μΙ
		100 nM	10 µl	5 µl
6-well	2 ml	50 nM	5 µl	5 µl
		10 nM	1 μΙ	5 μΙ

#### Storage/Stability

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

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