

Product Data Sheet

GRPEL1 siRNA (Rat)

Catalog #	Source	Reactivity	Applications		
CRR2214	Synthetic	R	RNAi		
Description	siRNA	siRNA to inhibit GRPEL1 expression using RNA interference			
Specificity	GRPE	GRPEL1 siRNA (Rat) is a target-specific 19-23 nt siRNA oligo duplexes designed to			
	knock	down gene expressio	n.		
Form	Lyoph	nilized powder			
Gene Symbol	GRPE	GRPEL1			
Alternative N	ames GREP	GREPEL1; GrpE protein homolog 1 mitochondrial; Mt-GrpE1			
Entrez Gene	79563	79563 (Rat)			
SwissProt	P9757	P97576 (Rat)			
Purity	> 97%	> 97%			
Quality Control Oligonucleotide synthesis is monitored base by bas			s monitored base by base throug	gh 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			
	spect	rometry to verify the o	exact composition of the duplex	. Each lot is compared to	
	the pi	revious lot by mass sp	ectrometry to ensure maximum	lot-to-lot consistency.	
Components	We of	We offers pre-designed sets of 3 different target-specific siRNA oligo duplexes of rat			
	GRPE	L1 gene. Each vial con	tains 5 nmol of lyophilized siRN/	A. The duplexes can be	
	transf	ected individually or p	pooled together to achieve knoc	kdown of the target	
	gene,	gene, which is most commonly assessed by qPCR or western blot.			
	Com	ponent	15 nmol	30 nmol	
	GRPI	EL1 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

5 nmol x 1

5 nmol x 2

GRPEL1 siRNA (Rat) - B

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GRPEL1 siRNA (Rat) - C 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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