

# **Product Data Sheet**

## **PPP1CA siRNA (Rat)**

Catalog #	Source	Reactivity	Applications		
CRR0243	Synthetic	R	RNAi		
Description					
Specificity	PPP10	PPP1CA siRNA (Rat) is a target-specific 19-23 nt siRNA oligo duplexes designed to			
	knock	knock down gene expression.			
Form	Lyoph	Lyophilized powder			
Gene Symbol		PPP1CA			
Alternative N	ames PPP1A	PPP1A; Serine/threonine-protein phosphatase PP1-alpha catalytic subunit; PP-1A			
Entrez Gene		24668 (Rat)			
SwissProt	P6213	P62138 (Rat)			
Purity		> 97%			
		cleotide 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			
			ectrometry to ensure maximum		
Components		We offers pre-designed sets of 3 different target-specific siRNA oligo duplexes of rat			
		PPP1CA 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.			
	-	ponent	15 nmol	30 nmol	
		.CA siRNA (Rat) - A	5 nmol x 1	5 nmol x 2	
		.CA siRNA (Rat) - B	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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PPP1CA 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 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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