

Product Data Sheet

MLH1 siRNA (Rat)

Catalog #	Source	Reactivity	Applications		
CRR2308	Synthetic	R	RNAi		
Description	siRNA	to inhibit MLH1 expr	ession using RNA interference		
Specificity	MLH1	MLH1 siRNA (Rat) is a target-specific 19-23 nt siRNA oligo duplexes designed to			
	knock	down gene expressio	n.		
Form	Lyoph	ilized powder			
Gene Symbol	MLH1	MLH1			
Alternative Names DNA mismatch repair protein Mlh1; MutL protein homolog 1					
Entrez Gene 81685 (Rat)					
SwissProt	P9767	P97679 (Rat)			
Purity > 97%					
Quality Contro	Quality Control Oligonucleotide synthesis is monitored base by base through trityl analysis			trityl analysis to ensure	
	appro	priate coupling efficie	ency. The oligo is subsequently pur	ified by affinity-solid	
	phase	phase extraction. The annealed RNA duplex is further analyzed by mass			
	specti	rometry to verify the	exact composition of the duplex. E	ach lot is compared to	
	the pr	revious lot by mass sp	ectrometry 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			
	MLH1	gene. Each vial conta	ins 5 nmol of lyophilized siRNA. Th	ne duplexes can be	
	transf	ected individually or	pooled together to achieve knockd	lown of the target	
	gene,	gene, which is most commonly assessed by qPCR or western blot.			
	Com	ponent	15 nmol	30 nmol	
	MLH	1 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

MLH1 siRNA (Rat) - B

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MLH1 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 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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