

# **Product Data Sheet**

### **MRPL45 siRNA (Human)**

Catalog #	Source	Reactivity		Applications		
CRJ3433	Synthetic	н		RNAi		
Description	siRNA	to inhibit MRPL45 e	xpression using R	NA interference		
Specificity	MRPL	.45 siRNA (Human) is	a target-specific	19-23 nt siRNA olig	o duplexes designed	
	to kno	ock down gene expre	ssion.			
Form	Lyoph	ilized powder				
Gene Symbol	MRPL	.45				
Alternative N	lames 39S ri	39S ribosomal protein L45 mitochondrial; L45mt; MRP-L45				
Entrez Gene	84311	L (Human)				
SwissProt	Q9BR	J2 (Human)				
Purity	> 97%	,				
Quality Cont	rol Oligor	Oligonucleotide synthesis is monitored base by base through 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	spectrometry to verify the exact composition of the duplex. Each lot is compared to				
	the pr	revious lot by mass s	pectrometry to er	nsure maximum lot	-to-lot consistency.	
Components	We of	We offers pre-designed sets of 3 different target-specific siRNA oligo duplexes of				
	huma	human MRPL45 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.				
	Com	ponent	1	.5 nmol	30 nmol	
	MRP	2L45 siRNA (Human) -	A 5	nmol x 1	5 nmol x 2	
	MRP	- L45 siRNA (Human)	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

### **COHESION BIOSCIENCES LIMITED**

WEB	ORDER	SUPPORT	CUSTOM
www.cohesionbio.com	order@cohesionbio.com	techsupport@cohesionbio.com	custom@cohesionbio.com



## **Product Data Sheet**

MRPL45 siRNA (Human) - 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
	2 ml	100 nM	10 µl	5 µl
6-well		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.

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

#### **COHESION BIOSCIENCES LIMITED**

WEB	ORDER	SUPPORT	CUSTOM
www.cohesionbio.com	order@cohesionbio.com	techsupport@cohesionbio.com	custom@cohesionbio.com