

Product Data Sheet

OPN4 siRNA (Human)

Catalog #	Source	Reactivity	Applications		
CRJ4259	Synthetic	Н	RNAi		
Description	siRNA	to inhibit OPN4 expr	ession using RNA interference		
Specificity	OPN4	OPN4 siRNA (Human) is a target-specific 19-23 nt siRNA oligo duplexes designed to			
	knock	down gene expressio	n.		
Form	Lyoph	Lyophilized powder			
Gene Symbol	OPN4	OPN4			
Alternative Na	ames MOP;	MOP; Melanopsin; Opsin-4			
Entrez Gene	94233	94233 (Human)			
SwissProt	Q9UH	Q9UHM6 (Human)			
Purity > 97%					
Quality Control Oligonucleotide synth			s monitored base by base through	n trityl analysis to ensure	
	appro	priate coupling efficie	ncy. 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	the previous lot by mass spectrometry to ensure maximum lot-to-lot consistency.			
Components	We of	We offers pre-designed sets of 3 different target-specific siRNA oligo duplexes of			
	huma	human OPN4 gene. Each vial contains 5 nmol of lyophilized siRNA. The duplexes can			
	be tra	be 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	
	OPN	4 siRNA (Human) - 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

OPN4 siRNA (Human) - B

COHESION BIOSCIENCES LIMITED

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



Product Data Sheet

OPN4 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 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.

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