

Product Data Sheet

DIO2 siRNA (Human)

Catalog #	Source	Reactivity	Applications		
CRH1202	Synthetic	н	RNAi		
Description	siRNA	to inhibit DIO2 expre	ession using RNA interference		
Specificity	DIO2	siRNA (Human) is a ta	rget-specific 19-23 nt siRNA oligo o	uplexes designed to	
	knock	down gene expressio	on.		
Form	Lyoph	ilized powder			
Gene Symbol	DIO2	DIO2			
Alternative N	ames ITDI2;	ITDI2; TXDI2; Type II iodothyronine deiodinase; 5DII; DIOII; Type 2 DI; Type-II			
	5'-dei	odinase			
Entrez Gene	1734	(Human)			
SwissProt	Q928	Q92813 (Human)			
Purity	> 97%	> 97%			
Quality Control Oligonucleotide synthesis is moni		s monitored base by base through	itored base by base through trityl analysis to ensure		
	appro	priate coupling efficie	ency. The oligo is subsequently puri	ified by affinity-solid	
	phase	phase extraction. The annealed RNA duplex is further analyzed by mass			
	specti	spectrometry to verify the exact composition of the duplex. Each lot is compared to			
	the pr	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 DIO2 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	
	DIO2	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

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DIO2 siRNA (Human) - B	5 nmol x 1	5 nmol x 2
DIO2 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.

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