

Product Data Sheet

MMP16 siRNA (Human)

Catalog # Source Reactivity Applications

CRH2937 Synthetic H RNAi

Description siRNA to inhibit MMP16 expression using RNA interference

Specificity MMP16 siRNA (Human) is a target-specific 19-23 nt siRNA oligo duplexes designed

to knock down gene expression.

Form Lyophilized powder

Gene Symbol MMP16

Alternative Names MMPX2; Matrix metalloproteinase-16; MMP-16; MMP-X2; Membrane-type matrix

metalloproteinase 3; MT-MMP 3; MTMMP3; Membrane-type-3 matrix

metalloproteinase; MT3-MMP; MT3MMP

Entrez Gene 4325 (Human)

SwissProt P51512 (Human)

Purity > 97%

Quality Control Oligonucleotide 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

the previous lot by mass spectrometry to ensure maximum lot-to-lot consistency.

Components We offers pre-designed sets of 3 different target-specific siRNA oligo duplexes of

human MMP16 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.

Component 15 nmol 30 nmol

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- Boying, C- Chicken, D- Dog, G- Goat, Mk- Monkey, P- Pig, Rh-

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MMP16 siRNA (Human) - A	5 nmol x 1	5 nmol x 2
MMP16 siRNA (Human) - B	5 nmol x 1	5 nmol x 2
MMP16 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

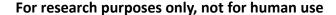
Directions for Use

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
96-well	100 μΙ	100 nM	0.5 μΙ	0.25 μΙ
		50 nM	0.25 μl	0.25 μΙ
		10 nM	0.05 μΙ	0.25 μΙ
24-well		100 nM	2.5 μΙ	1 μΙ
	500 μΙ	50 nM	1.25 μΙ	1 μΙ
		10 nM	0.25 μl	1 μΙ
12-well	1 ml	100 nM	5 μΙ	2 μΙ
		50 nM	2.5 μΙ	2 μΙ
		10 nM	0.5 μΙ	2 μΙ
6-well	2 ml	100 nM	10 μΙ	5 μΙ
		50 nM	5 μΙ	5 μΙ
		10 nM	1 μΙ	5 μΙ

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Storage/Stability Shipped at 4 °C. Store at -20 °C for one year.

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