For research purposes only, not for human use

Product Data Sheet

IMPAD1 siRNA (Human)

Catalog #	Source	Reactivity	Applications
CRJ0331	Synthetic	H	RNAi

Description	siRNA to inhibit IMPAD1 expression using RNA interference
Specificity	IMPAD1 siRNA (Human) is a target-specific 19-23 nt siRNA oligo duplexes designed to knock down gene expression.
Form	Lyophilized powder
Gene Symbol	IMPAD1
Alternative Names	IMPA3; Inositol monophosphatase 3; IMP 3; IMPase 3; Golgi 3-prime phosphoadenosine 5-prime phosphate 3-prime phosphatase; Golgi-resident PAP phosphatase; gPAPP; Inositol monophosphatase domain-containing protein 1; Inositol-1(or 4)-monophosphatase 3; Myo-inositol monophosphatase A3
Entrez Gene	54928 (Human)
SwissProt	Q9NX62 (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 IMPAD1 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.

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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Component	15 nmol	30 nmol
IMPAD1 siRNA (Human) - A	5 nmol x 1	5 nmol x 2
IMPAD1 siRNA (Human) - B	5 nmol x 1	5 nmol x 2
IMPAD1 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 µl of DEPC water to get a final concentration of 20 µM.

Plate	Final volume of medium	Final concentration of siRNA	siRNA (20 µM)	Lipofectamin 2000
96-well	100 µl	100 nM	0.5 µl	0.25 µl
		50 nM	0.25 µl	0.25 µl
		10 nM	0.05 µl	0.25 µl
24-well	500 µl	100 nM	2.5 µl	1 µl
		50 nM	1.25 µl	1 µl
		10 nM	0.25 µl	1 µl
12-well	1 ml	100 nM	5 µl	2 µl
		50 nM	2.5 µl	2 µl
		10 nM	0.5 µl	2 µl
6-well	2 ml	100 nM	10 µl	5 µl
		50 nM	5 µl	5 µl

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	10 nM	1 µl	5 µl

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

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