

# Product Data Sheet

## KIR2DL1 siRNA (Human)

| Catalog #                | Source                                                                                                                                                                                                                                                                                                                                                                                                                | Reactivity | Applications |
|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|--------------|
| CRH2573                  | Synthetic                                                                                                                                                                                                                                                                                                                                                                                                             | H          | RNAi         |
| <b>Description</b>       | siRNA to inhibit KIR2DL1 expression using RNA interference                                                                                                                                                                                                                                                                                                                                                            |            |              |
| <b>Specificity</b>       | KIR2DL1 siRNA (Human) is a target-specific 19-23 nt siRNA oligo duplexes designed to knock down gene expression.                                                                                                                                                                                                                                                                                                      |            |              |
| <b>Form</b>              | Lyophilized powder                                                                                                                                                                                                                                                                                                                                                                                                    |            |              |
| <b>Gene Symbol</b>       | KIR2DL1                                                                                                                                                                                                                                                                                                                                                                                                               |            |              |
| <b>Alternative Names</b> | CD158A; NKAT1; Killer cell immunoglobulin-like receptor 2DL1; CD158 antigen-like family member A; MHC class I NK cell receptor; Natural killer-associated transcript 1; NKAT-1; p58 natural killer cell receptor clones CL-42/47.11; p58 NK receptor CL-42/47.1                                                                                                                                                       |            |              |
| <b>Entrez Gene</b>       | 3802 (Human)                                                                                                                                                                                                                                                                                                                                                                                                          |            |              |
| <b>SwissProt</b>         | P43626 (Human)                                                                                                                                                                                                                                                                                                                                                                                                        |            |              |
| <b>Purity</b>            | > 97%                                                                                                                                                                                                                                                                                                                                                                                                                 |            |              |
| <b>Quality Control</b>   | 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. |            |              |
| <b>Components</b>        | We offers pre-designed sets of 3 different target-specific siRNA oligo duplexes of human KIR2DL1 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      |
|---------------------------|--------------|--------------|
| KIR2DL1 siRNA (Human) - A | 5 nmol x 1   | 5 nmol x 2   |
| KIR2DL1 siRNA (Human) - B | 5 nmol x 1   | 5 nmol x 2   |
| KIR2DL1 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 of medium | Final concentration of siRNA | siRNA (20 $\mu$ M) | Lipofectamin 2000 |
|---------|------------------------|------------------------------|--------------------|-------------------|
| 96-well | 100 $\mu$ l            | 100 nM                       | 0.5 $\mu$ l        | 0.25 $\mu$ l      |
|         |                        | 50 nM                        | 0.25 $\mu$ l       | 0.25 $\mu$ l      |
|         |                        | 10 nM                        | 0.05 $\mu$ l       | 0.25 $\mu$ l      |
| 24-well | 500 $\mu$ l            | 100 nM                       | 2.5 $\mu$ l        | 1 $\mu$ l         |
|         |                        | 50 nM                        | 1.25 $\mu$ l       | 1 $\mu$ l         |
|         |                        | 10 nM                        | 0.25 $\mu$ l       | 1 $\mu$ l         |
| 12-well | 1 ml                   | 100 nM                       | 5 $\mu$ l          | 2 $\mu$ l         |
|         |                        | 50 nM                        | 2.5 $\mu$ l        | 2 $\mu$ l         |
|         |                        | 10 nM                        | 0.5 $\mu$ l        | 2 $\mu$ l         |
| 6-well  | 2 ml                   | 100 nM                       | 10 $\mu$ l         | 5 $\mu$ l         |
|         |                        | 50 nM                        | 5 $\mu$ l          | 5 $\mu$ l         |

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10 nM

1  $\mu$ l5  $\mu$ l**Storage/Stability**

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

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