

# Product Data Sheet

## TLL1 siRNA (Human)

| Catalog #                                                                                                                                                                                                                                                                                                                                    | Source                                                                                                                                                                                                                                                                                                                                                                                                                | Reactivity | Applications |           |         |         |                        |            |            |                        |            |            |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|--------------|-----------|---------|---------|------------------------|------------|------------|------------------------|------------|------------|
| CRH4859                                                                                                                                                                                                                                                                                                                                      | Synthetic                                                                                                                                                                                                                                                                                                                                                                                                             | H          | RNAi         |           |         |         |                        |            |            |                        |            |            |
| Description                                                                                                                                                                                                                                                                                                                                  | siRNA to inhibit TLL1 expression using RNA interference                                                                                                                                                                                                                                                                                                                                                               |            |              |           |         |         |                        |            |            |                        |            |            |
| Specificity                                                                                                                                                                                                                                                                                                                                  | TLL1 siRNA (Human) is a target-specific 19-23 nt siRNA oligo duplexes designed to knock down gene expression.                                                                                                                                                                                                                                                                                                         |            |              |           |         |         |                        |            |            |                        |            |            |
| Form                                                                                                                                                                                                                                                                                                                                         | Lyophilized powder                                                                                                                                                                                                                                                                                                                                                                                                    |            |              |           |         |         |                        |            |            |                        |            |            |
| Gene Symbol                                                                                                                                                                                                                                                                                                                                  | TLL1                                                                                                                                                                                                                                                                                                                                                                                                                  |            |              |           |         |         |                        |            |            |                        |            |            |
| Alternative Names                                                                                                                                                                                                                                                                                                                            | TLL; Tolloid-like protein 1                                                                                                                                                                                                                                                                                                                                                                                           |            |              |           |         |         |                        |            |            |                        |            |            |
| Entrez Gene                                                                                                                                                                                                                                                                                                                                  | 7092 (Human)                                                                                                                                                                                                                                                                                                                                                                                                          |            |              |           |         |         |                        |            |            |                        |            |            |
| SwissProt                                                                                                                                                                                                                                                                                                                                    | O43897 (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 TLL1 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.                                                                                                 |            |              |           |         |         |                        |            |            |                        |            |            |
| <table><tr><th>Component</th><th>15 nmol</th><th>30 nmol</th></tr><tr><td>TLL1 siRNA (Human) - A</td><td>5 nmol x 1</td><td>5 nmol x 2</td></tr><tr><td>TLL1 siRNA (Human) - B</td><td>5 nmol x 1</td><td>5 nmol x 2</td></tr></table>                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                       |            |              | Component | 15 nmol | 30 nmol | TLL1 siRNA (Human) - A | 5 nmol x 1 | 5 nmol x 2 | TLL1 siRNA (Human) - B | 5 nmol x 1 | 5 nmol x 2 |
| Component                                                                                                                                                                                                                                                                                                                                    | 15 nmol                                                                                                                                                                                                                                                                                                                                                                                                               | 30 nmol    |              |           |         |         |                        |            |            |                        |            |            |
| TLL1 siRNA (Human) - A                                                                                                                                                                                                                                                                                                                       | 5 nmol x 1                                                                                                                                                                                                                                                                                                                                                                                                            | 5 nmol x 2 |              |           |         |         |                        |            |            |                        |            |            |
| TLL1 siRNA (Human) - B                                                                                                                                                                                                                                                                                                                       | 5 nmol x 1                                                                                                                                                                                                                                                                                                                                                                                                            | 5 nmol x 2 |              |           |         |         |                        |            |            |                        |            |            |
| <b>Application key:</b> 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 |                                                                                                                                                                                                                                                                                                                                                                                                                       |            |              |           |         |         |                        |            |            |                        |            |            |
| <b>Species reactivity key:</b> 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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|                        |              |              |
|------------------------|--------------|--------------|
| TLL1 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<br>of medium | Final concentration<br>of siRNA | siRNA (20 µM) | Lipofectamin<br>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                 |
|         |                           | 10 nM                           | 1 µl          | 5 µl                 |

## Storage/Stability

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

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