

Product Data Sheet

CPT1A siRNA (Rat)

Catalog # Source Reactivity Applications

CRR0934 Synthetic R RNAi

Description siRNA to inhibit CPT1A expression using RNA interference

Specificity CPT1A siRNA (Rat) is a target-specific 19-23 nt siRNA oligo duplexes designed to

knock down gene expression.

Form Lyophilized powder

Gene Symbol CPT1A

Alternative Names CPT-1; CPT1; Carnitine O-palmitoyltransferase 1. liver isoform; CPT1-L; Carnitine

O-palmitoyltransferase I. liver isoform; CPT I; CPTI-L; Carnitine palmitoyltransferase

1A

Entrez Gene 25757 (Rat)

SwissProt P32198 (Rat)

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 rat

CPT1A 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- Bovine, C- Chicken, D- Dog, G- Goat, Mk- Monkey, P- Pig, Rb-Rabbit, S- Sheep, Z- Zebrafish

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| CPT1A siRNA (Rat) - A | 5 nmol x 1 | 5 nmol x 2 |
|-----------------------|--------------|--------------|
| CPT1A siRNA (Rat) - B | 5 nmol x 1 | 5 nmol x 2 |
| CPT1A siRNA (Rat) - 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 | Final concentration | siRNA (20 μM) | Lipofectamin |
|---------|--------------|---------------------|---------------|--------------|
| | of medium | of siRNA | | 2000 |
| 96-well | | 100 nM | 0.5 μΙ | 0.25 μΙ |
| | 100 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 μΙ | 1 μΙ |
| 12-well | | 100 nM | 5 μΙ | 2 μΙ |
| | 1 ml | 50 nM | 2.5 μΙ | 2 μΙ |
| | | 10 nM | 0.5 μΙ | 2 μΙ |
| 6-well | | 100 nM | 10 μΙ | 5 μΙ |
| | 2 ml | 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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