

## Product Data Sheet

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Product Name: Miravirsen

Cat. No.: GC64487

### Chemical Properties

Cas. No. 1072874-90-8

Formula M.Wt 4967

Solubility Water : 100 mg/mL (20.13 mM; Need ultrasonic) Storage Store at -20°C, stored under nitrogen

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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Structure

# Miravirsen

### Background

Miravirsen (SPC-3649), a  $\beta$ -d-oxy-locked nucleic acid-modified phosphorothioate antisense oligonucleotide, inhibit the biogenesis of miR-122. Miravirsen (SPC-3649) is used in the study for HCV infections[1].

Miravirsen is thought to work mainly by hybridizing to mature miR-122 and blocking its interaction with HCV RNA, its target sequence is also present in pri- and pre-miR-122[1]. Miravirsen binds to the stem-loop structure of pri- and pre-miR-122 with nanomolar affinity, and inhibits both Dicer- and Drosha-mediated processing of miR-122 precursors[1].

[1]. Luca F R Gebert, et al. Miravirsen (SPC3649) can inhibit the biogenesis of miR-122. Nucleic Acids Res. 2014 Jan;42(1):609-21.

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