

Product Data Sheet

Product Name: SPC5001

Cat. No.: GC71043

Chemical Properties

Cas. No.

Formula

M.Wt

4689.85

Solubility H₂O : ≥ 100 mg/mL (21.32 mM)

Storage

-20°C, sealed storage, away from moisture

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.

Structure

SPC5001

Background

SPC5001 is a locked nucleic acid (LNA)-modified antisense oligonucleotide (ASO) complementary to human PCSK9 (proprotein convertase subtilisin/kexin type 9) mRNA. SPC5001 can be used for the research of hypercholesterolemia. SPC5001 sequence: 5'-TGmCTACAAAACmCmCA-3'.

SPC5001 (0.16-40 μM; 72 h) induces the downregulation of *PCSK9* mRNA targets but cytotoxicity is not observed at any concentration in 2D human renal proximal tubule epithelial cells (HRPTEC) cultures^[1].

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

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SPC5001 (5 μ M; 48 h or 20 d) downregulates *PCSK9* mRNA in chip-cultured HRPTEC, with 74.1% and 93.7% for 48 h and 20 days, respectively^[1].

SPC5001 (5 μ M; 20 d) induces cytotoxicity and increases perfusate levels of biomarkers KIM-1, NGAL, clusterin, osteopontin and VEGF in chip-cultured HRPTEC^[1].

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