

Product Data Sheet

Product Name: RGLS4326

Cat. No.: GC64903

Chemical Properties

Cas. No. 2229964-07-0

Formula $C_{95}H_{115}F_3N_{32}O_{51}P_8S_8$ M.Wt 3082.42

Solubility 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.

Structure

RGLS4326

Background

RGLS4326 (RG4326) is a first-in-class, short oligonucleotide inhibitor of microRNA-17 (miR-17). RGLS4326 can be used for the research of autosomal dominant polycystic kidney disease (ADPKD). RGLS4326 inhibits miR-17 function in HeLa cells with an EC50 value of 28.3 nM[1].

RGLS4326, a single-stranded, chemically modified, short oligonucleotide of 9-nt with full complementarity to the miR-17 seed sequence. RGLS4326 inhibits the pathologic functions of the miR-17 family of miRNAs in ADPKD[1]. RGLS4326 treatment inhibits miR-17 function in kidney

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

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collecting duct cells in culture as measured by miR-17 PD-Sig, with an EC₅₀ value of 77.2 ± 20.2 nM[1]. RGLS4326 suppresses the growth of primary human autosomal dominant polycystic kidney disease (ADPKD) cysts[1].

RGLS4326 preferentially distributes to kidney tubules and cysts. RGLS4326 (a single 30 mg/kg SC injection) is rapidly absorbed into plasma, showing T_{max} of ≤ 1 h, C_{max} of 8.5 µg/mL, and half-life of < 4 h in wild-type mice[1]. In vivo administration of RGLS4326 also upregulates the expression of the direct miR-17 target genes Pkd1 and Pkd2[1].

[1]. Edmund C Lee, et al. Discovery and preclinical evaluation of anti-miR-17 oligonucleotide RGLS4326 for the treatment of polycystic kidney disease. Nat Commun. 2019 Sep 12;10(1):4148.

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