
Product Data Sheet

Product Name: Aprinocarsen sodium

Cat. No.: GC68679

Chemical Properties

Cas. No. 331257-53-5

Formula $C_{196}H_{230}N_{68}Na_{19}O_{105}P_{19}S_{19}$ M.Wt 6852.85

Solubility H₂O : 100 mg/mL (14.59 mM; Need ultrasonic) Storage Store at -20°C

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

Background

Aprinocarsen (ISIS 3521) sodium, a specific antisense oligonucleotide inhibitor of protein kinase C-alpha (**PKC- α**). Aprinocarsen sodium is a 20-mer oligonucleotide, it regulates cell differentiation and proliferation. Aprinocarsen sodium inhibits the growth of human tumor cell lines in nude mice. Aprinocarsen sodium shows the value as a chemotherapeutic compound of human cancers^[1].

Aprinocarsen sodium dose-dependently and oligonucleotide sequence specifically inhibits PKC-alpha in human bladder carcinoma (T-24) cells^[1].

Aprinocarsen sodium shows an IC₅₀ value of 50-100 nM for PKC- α mRNA reduction, but it shows no effect on the expression of other members of the PKC family of genes (PKC-eta and zeta)^[1].

Aprinocarsen sodium (100 mg/kg; i.v.; at repeat doses for 14 days) shows well tolerated character with no apparently acute toxicity^[1].

Aprinocarsen sodium (i.v.) dose-dependently inhibits the growth of T-24 bladder, human lung carcinoma (A549) and Colo 205 colon carcinoma human tumor cell lines in nude mice with ID₅₀ values of 0.06-0.6 mg/kg daily^[1].

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

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[1]. <https://pubmed.ncbi.nlm.nih.gov/8758918/>

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