

## Aprinocarsen sodium

<b>Cat. No.:</b>	HY-148413
<b>CAS No.:</b>	331257-53-5
<b>Molecular Formula:</b>	C <sub>196</sub> H <sub>230</sub> N <sub>68</sub> Na <sub>19</sub> O <sub>105</sub> P <sub>19</sub> S <sub>19</sub>
<b>Molecular Weight:</b>	6852.85
<b>Sequence:</b>	DNA, d(P-thio)(G-T-T-C-T-C-G-C-T-G-G-T-G-A-G-T-T-T-C-A)
<b>Target:</b>	PKC
<b>Pathway:</b>	Epigenetics; TGF-beta/Smad
<b>Storage:</b>	-20°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)

## Aprinocarsen (sodium)

### SOLVENT & SOLUBILITY

<b>In Vitro</b>	H <sub>2</sub> O : 100 mg/mL (14.59 mM; Need ultrasonic)				
		Solvent Concentration	Mass		
	<b>Preparing Stock Solutions</b>		1 mg	5 mg	10 mg
		1 mM	0.1459 mL	0.7296 mL	1.4592 mL
		5 mM	0.0292 mL	0.1459 mL	0.2918 mL
	10 mM	0.0146 mL	0.0730 mL	0.1459 mL	
Please refer to the solubility information to select the appropriate solvent.					

### BIOLOGICAL ACTIVITY

<b>Description</b>	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 <sup>[1]</sup> .
<b>In Vitro</b>	Aprinocarsen sodium dose-dependently and oligonucleotide sequence specifically inhibits PKC-alpha in human bladder carcinoma (T-24) cells <sup>[1]</sup> . Aprinocarsen sodium shows an IC <sub>50</sub> 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) <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
<b>In Vivo</b>	Aprinocarsen sodium (100 mg/kg; i.v.; at repeat doses for 14 days) shows well tolerated character with no apparently acute toxicity <sup>[1]</sup> . 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 ID <sub>50</sub> values of 0.06-0.6 mg/kg daily <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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## REFERENCES

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

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

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