

Danvatirsen

Cat. No.:	HY-145729
CAS No.:	1402357-06-5
Molecular Weight:	5422
Sequence:	DNA, d(P-thio)[[(5'ξ)-2',5'-anhydro-6'-deoxy-4'-C-(hydroxymethyl)-α-L-lyxo-hexofuran o]m5C-(3'→4')-[(5'ξ)-2',5'-anhydro-6'-deoxy-4'-C-(hydroxymethyl)-α-L-lyxo-hexofuran o]m5U-(3'→4')-[(5'ξ)-2',5'-anhydro-6'-deoxy-4'-C-(hydroxymethyl)-α-L-lyxo-hexofuran o]A-T-T-T-G-G-A-T-G-T-m5C-(3'→4')-[(5'ξ)-2',5'-anhydro-6'-deoxy-4'-C-(hydroxymethyl)-α-L-lyxo-hexofurano]A-(3'→4')-[(5'ξ)-2',5'-anhydro-6'-deoxy-4'-C-(hydroxymethyl)-α-L-lyxo-hexofurano]G-(3'→4')-[(5'ξ)-2',5'-anhydro-6'-deoxy-4'-C-(hydroxymethyl)-α-L-lyxo-hexofurano]m5C)
Target:	STAT; Apoptosis
Pathway:	JAK/STAT Signaling; Stem Cell/Wnt; Apoptosis
Storage:	-20°C, stored under nitrogen * In solvent : -80°C, 6 months; -20°C, 1 month (stored under nitrogen)

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SOLVENT & SOLUBILITY

In Vitro	H ₂ O : 100 mg/mL (18.44 mM); Need ultrasonic)				
		Solvent Concentration	Mass		
	Preparing Stock Solutions	1 mM	1 mg	5 mg	10 mg
		5 mM	0.1844 mL	0.9222 mL	1.8443 mL
		10 mM	0.0369 mL	0.1844 mL	0.3689 mL
	10 mM	0.0184 mL	0.0922 mL	0.1844 mL	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: PBS Solubility: 50 mg/mL (9.22 mM); Clear solution; Need ultrasonic				

BIOLOGICAL ACTIVITY

Description	Danvatirsen is an antisense oligonucleotide targeting STAT3 with potential antitumor activity. Danvatirsen binds to STAT3 mRNA, thereby inhibiting translation of the transcript. Suppression of STAT3 expression induces tumor cell apoptosis and decreases tumor cell growth.
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REFERENCES

[1]. Hong D, Kurzrock R, Kim Y, et al. AZD9150, a next-generation antisense oligonucleotide inhibitor of STAT3 with early evidence of clinical activity in lymphoma and lung

cancer. *Sci Transl Med.* 2015;7(314):314ra185.

[2]. Reilley MJ, McCoon P, Cook C, et al. STAT3 antisense oligonucleotide AZD9150 in a subset of patients with heavily pretreated lymphoma: results of a phase 1b trial. *J Immunother Cancer.* 2018;6(1):119.

[3]. Odate S, Veschi V, Yan S, Lam N, Woessner R, Thiele CJ. Inhibition of STAT3 with the Generation 2.5 Antisense Oligonucleotide, AZD9150, Decreases Neuroblastoma Tumorigenicity and Increases Chemosensitivity. *Clin Cancer Res.* 2017;23(7):1771-1784.

[4]. Shastri A, Choudhary G, Teixeira M, et al. Antisense STAT3 inhibitor decreases viability of myelodysplastic and leukemic stem cells. *J Clin Invest.* 2018;128(12):5479-5488.

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

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