Trabedersen

®

MedChemExpress

Cat. No.: CAS No.:	HY-142118 925681-61-4	
Molecular Weight: Sequence:	5768.7 DNA, d(P-thio)(C-G-G-C-A-T-G-T-C-T-A-T-T-T-G-T-A)	Trobodoroop
Target:	TGF-beta/Smad	Trabedersen
Pathway:	Stem Cell/Wnt; TGF-beta/Smad	
Storage:	-20°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)	

SOLVENT & SOLUBILITY

		Solvent Mass Concentration	1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	0.1733 mL	0.8667 mL	1.7335 mL
		5 mM	0.0347 mL	0.1733 mL	0.3467 mL
		10 mM	0.0173 mL	0.0867 mL	0.1733 mL

BIOLOGICAL ACTIVI	ТҮ		
Description	Trabedersen (AP 12009) is an antisense oligodeoxynucleotide that specifically inhibits TGF-β2 (TGF-beta/Smad). Trabedersen can be used for the study of malignant brain tumors and other solid tumors overexpressing TGF-β2, such as those of the skin, pancreas and colon ^{[1][2]} .		
In Vitro	Trabedersen (1-80 μM; 7 days) reduces TGF-β2 secretion in human pancreatic cancer cell line Hup-T3 with an IC ₅₀ in the low μM range, clearly inhibits cell proliferation, and completely blocks migration of pancreatic cancer cells ^[2] . Trabedersen reverses TGF-β2-mediated immunosuppression of pancreatic cancer cells ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. Cell Proliferation Assay ^[2]		
	Cell Line:	Hup-T3 cells	
	Concentration:	1 μΜ, 2.5 μΜ, 5 μΜ, 10 μΜ, 20 μΜ, 40 μΜ, 60 μΜ, 80 μΜ	
	Incubation Time:	7 days	
	Result:	Inhibited cell proliferation, and completely blocked migration of pancreatic cancer cells.	

Product Data Sheet

In Vivo	significantly reduces to pancreatic cancer ^[2] .	Trabedersen (initial loading dose of 50 mg/kg bodyweight followed by 16 mg/kg three times a week; i.p.) treatment significantly reduces tumor growth, lymph node metastasis and angiogenesis in an orthotopic mouse model of metastatic pancreatic cancer ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.		
	Animal Model:	Eight-week-old male athymic nude mice (BALB⁄Cnu ⁄nu) bearing human pancreatic cancer cells ^[2] .		
	Dosage:	Initial loading dose of 50 mg/kg bodyweight followed by 16 mg/kg three times a week.		
	Administration:	Intraperitoneal (i.p.) injection; three times a week; for 27 days		
	Result:	Significantly reduced tumor growth, lymph node metastasis and angiogenesis.		

REFERENCES

[1]. Luc Vallières. Trabedersen, a TGFbeta2-specific antisense oligonucleotide for the treatment of malignant gliomas and other tumors overexpressing TGFbeta2. IDrugs. 2009 Jul;12(7):445-53.

[2]. Karl-Hermann Schlingensiepen, et al. Transforming growth factor-beta 2 gene silencing with trabedersen (AP 12009) in pancreatic cancer. Cancer Sci. 2011 Jun;102(6):1193-200.

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

 Tel: 609-228-6898
 Fax: 609-228-5909
 E-mail: tech@MedChemExpress.com

 Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA