

ODN 1826

Cat. No.:	HY-146245
CAS No.:	202668-42-6
Molecular Weight:	6364.1
Sequence:	DNA, d(P-thio)(T-C-C-A-T-G-A-C-G-T-T-C-C-T-G-A-C-G-T-T)
Target:	Toll-like Receptor (TLR); Apoptosis
Pathway:	Immunology/Inflammation; Apoptosis
Storage:	-20°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)

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SOLVENT & SOLUBILITY

In Vitro

H₂O : 50 mg/mL (7.86 mM; Need ultrasonic)

Solvent Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	0.1571 mL	0.7857 mL	1.5713 mL
5 mM	0.0314 mL	0.1571 mL	0.3143 mL
10 mM	---	---	---

Please refer to the solubility information to select the appropriate solvent.

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

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Preparing

Stock Solutions

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BIOLOGICAL ACTIVITY

Description

ODN 1826, a class B CpG ODN (oligodeoxynucleotide), is a TLR9 agonist. CpG ODN 1826 is an excellent immunostimulator that induces NO and iNOS production in the murine model. CpG ODN 1826 enhances cell apoptosis. ODN 1826 sequence: 5'-tccatgacgttctgacgtt-3'^{[1][2][3]}.

IC₅₀ & Target

TLR9

REFERENCES

- [1]. Krogmann AO, et al. Proinflammatory Stimulation of Toll-Like Receptor 9 with High Dose CpG ODN 1826 Impairs Endothelial Regeneration and Promotes Atherosclerosis in Mice. PLoS One. 2016 Jan 11;11(1):e0146326.
- [2]. Utaincharoen P, et al. CpG ODN activates NO and iNOS production in mouse macrophage cell line (RAW 264.7). Clin Exp Immunol. 2002 Jun;128(3):467-73.
- [3]. Yuan S, et al. CpG oligodeoxynucleotide 1826 enhances the Lewis lung cancer response to radiotherapy in murine tumor. Cancer Biother Radiopharm. 2011 Apr;26(2):203-8.