

ODN D-SL03

Cat. No.:	HY-150749
CAS No.:	1198621-85-0
Molecular Weight:	9345
Target:	IFNAR
Pathway:	Immunology/Inflammation
Storage:	-20°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)

DNA d(P-tho)(TCGCGAACGGTTCGCCGCGGTTCGAACGCGG)

SOLVENT & SOLUBILITY

In Vitro

H₂O : ≥ 20 mg/mL (2.14 mM)
* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	0.1070 mL	0.5350 mL	1.0701 mL
	5 mM	---	---	---
	10 mM	---	---	---

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

BIOLOGICAL ACTIVITY

Description

ODN D-SL03 is a C class CpG oligonucleotides, can induce stimulate PBMCs to produce high level of IFN- α . ODN D-SL03 can activate human B cells, NK cells and mononuclear cells and up-regulate expression of CD80, CD86 and HLA-DR on the surface of subsets in human PBMCs. ODN D-SL03 also can inhibit the growth of the tumor. ODN D-SL03 sequence: 5'-tcgCGAACGTTCCGCCGCGGTTCGAACGCGG-3'^[1].

IC₅₀ & Target

IFN- α ^[1]

In Vitro

ODN D-SL03 (0-3 μ g/mL; 36 h) significantly induces IFN- α production in PBMCs at 0.19 μ g/mL^[1].
ODN D-SL03 (3 μ g/mL; 18 or 36 h) activates immune cells including B, NK, T and monocyte cells^[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

In Vivo

ODN D-SL03 (25 μ g per mouse; Peritumoral injection) induces significant inhibition of tumor growth^[1].
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Animal Model:	Female BALB/c mice (6-8 weeks; inoculated with 5×10^5 EMT6 cells) ^[1]
Dosage:	25 µg per mouse
Administration:	Peritumoral injection, six times in one-day interval, for 0-100 days
Result:	Induced significant inhibition of tumor growth.

REFERENCES

[1]. Yang L, et al. CpG oligodeoxynucleotides with double stem-loops show strong immunostimulatory activity. *Int Immunopharmacol*. 2013 Jan;15(1):89-96.

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

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