ODN 2336

Cat. No.:	HY-150742
CAS No.:	332956-64-6
Molecular Weight:	6761.7
Sequence:	DNA, d(G-sp-G-sp-G-G-A-C-G-A-C-G-T-C-G-T-G-G-sp-G-sp-G-sp-G-sp-G-sp-G)
Target:	Toll-like Receptor (TLR)
Pathway:	Immunology/Inflammation
Storage:	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)

SOLVENT & SOLUBILITY

In Vitro

H_2O : 20 mg/mL (2.96 mM; Need ultrasonic)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	0.1479 mL	0.7395 mL	1.4789 mL
	5 mM	---	---	---
	10 mM	---	---	---

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

BIOLOGICAL ACTIVITY

Description

ODN 2336 is a A-Class CpG ODN (oligodeoxynucleotides), is a potent TLR9 agonist. ODN 2336 induces the production of IFN-α. ODN 2336 up-regulates the expression of IP-10 mRNA and IL-18 mRNA. ODN 2336 can be used as adjuvant of vaccines[1][2][3].

In Vitro

ODN 2336 (0.5 μM; 24, 48 h) up-regulates the expression of f CD69 and IFN-α[1].
ODN 2336 (3 μg/ml; 4 h) stimulates strang transcription of IP-10 mRNA after 4 h in human PBMC[1].
ODN 2336 (3 μg/ml; 2, 4, 16 h) up-regulates the expression of IL-18 mRNA at the 16 htime point[1].
ODN 2336 (50 μg/mL; 20 h) with IL-3 (10 ng/mL) induces the production of IFN-α in the plasma of adult and cord blood[2].
ODN 2336 (0.3125-5 μg/ml; 24 h) increases the production of FNA1 in a dose-dependent manner in human PBMCs[3].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. urk M, et al. C-Class CpG ODN: sequence requirements and characterization of immunostimulatory activities on mRNA level. Immunobiology. 2004;209(1-2):141-54.

[2]. old MC, et al. Purified neonatal plasmacytoid dendritic cells overcome intrinsic maturation defect with TLR agonist stimulation. Pediatr Res. 2006 Jul;60(1):34-7.

[3]. Hilbert T, et al. Beta2-adrenoceptor stimulation suppresses TLR9-dependent IFNA1 secretion in human peripheral blood mononuclear cells. PLoS One. 2013 May 28;8(5):e65024.

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