

ODN 6016

Cat. No.:	HY-150747	
CAS No.:	1271731-64-6	
Molecular Weight:	4729.3	
Sequence:	DNA, d(T-sp-C-G-A-C-G-T-C-G-T-G-G-sp-G-sp-G-sp-G)	DNA, d(T-sp-C-G-A-C-G-T-C-G-T-G-G-sp-G-sp-G-sp-G)?
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)	

SOLVENT & SOLUBILITY

In Vitro

H₂O : 100 mg/mL (21.14 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent	1 mg	5 mg	10 mg
	Concentration	1 mg	5 mg	10 mg
1 mM	0.2114 mL	1.0572 mL	2.1145 mL	
5 mM	0.0423 mL	0.2114 mL	0.4229 mL	
10 mM	0.0211 mL	0.1057 mL	0.2114 mL	

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

BIOLOGICAL ACTIVITY

Description

ODN 6016 is a CpG-A oligonucleotides. ODN 6016 can induce IFN- α production, can be used for researching immune disorders including immunodeficiency caused by HIV-1. ODN 6016 sequence: T-sp-C-G-A-C-G-T-C-G-T-G-G-sp-G-sp-G-sp-G^[1] [2].

IC₅₀ & Target

IFN- α ^[1]

REFERENCES

[1]. Ries M, et al. Identification of novel oligonucleotides from mitochondrial DNA that spontaneously induce plasmacytoid dendritic cell activation. J Leukoc Biol. 2013 Jul;94(1):123-35.

[2]. Tennert K, et al. Elevated CD40 ligand silences α interferon production in an HIV-related immune reconstitution inflammatory syndrome. AIDS. 2013 Jan 14;27(2):297-9.

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

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