

□ Cat. #ODNM362-1	ODN M362- Type C human/ murine TLR9 Agonist, antigen grade	Size: 1 mg
□ Cat. #ODNM362-5	ODN M362- Type C human/ murine TLR9 Agonist, antigen grade	Size: 5 mg
□ Cat. #ODNM362-1NC	ODN M362- Type C human/ murine TLR9 Agonist (Negative Control), antigen grade	Size: 1 mg
□ Cat. #ODNM362-5NC	ODN M362- Type C human/murine TLR9 Agonist (Negative Control), antigen grade	Size: 5 mg
□ Cat. #ODNM362-F	ODN M362- Type C human/murine TLR9 Agonist FITC Conjugate, antigen grade	Size: 1 OD
□ Cat. #ODNM362-B	ODN M362- Type C human/murine TLR9 Agonist Biotin Conjugate, antigen grade	Size: 1 OD

CpG oligodeoxynucleotides (or CpG ODN) are short single-stranded synthetic DNA molecules that contain an unmethylated CG (Cytosine-guanine) di nucleotide in a specific base sequence (CpG motifs). The p refer to the phosphodiester backbone. These CpG motifs are not seen in eukaryotic DNA are considered pathogen-associated molecular patterns (PAMPs). The CpG PAMP is recognized by (TLR9). 3 types of, stimulatory ODNs have been identified based upon immunostimulatory activities.

Class A stimulate the production of large amounts of Type I interferons, induce the maturation of pDCs. They are also strong activators of NK cells through indirect cytokine signaling.

Class B ODN are strong stimulators of bovine/porcine B cell and monocyte maturation. They also stimulate the maturation of pDC but to a lesser extent than Class A ODN and very small amounts of IFN α .

Class C ODN combine features of both types A and B. They contain a complete phosphorothioate backbone and a CpG-containing palindromic motif. They induce strong IFN- α production from DC and B cell stimulation.

ODN M362 is a Class C human/murine TLR9 agonist. ODN M362 is a recently identified CpG ODN termed CpG-C that displays both high induction of PDC and activation of B cells. ODN M362 contains a central palindromic sequence with CpG dinucleotides a characteristic feature of CpG-A, and a 'TCGTCC' motif at the 5' end, present in CpG-B. The recognition of CpG ODNs is mediated primarily by TLR9

Cat.#:ODNM362-1 & ODNM362-5

Sequence	5'- tcgtcgctcggtcgaaacgacggtgat -3' (25 mer)
Purity	≥95%
Form and storage	Powder. After reconstitution, Store at -20C up to 1 year
Shipping	Shipped at 4° C
Solubility	water, PBS or other buffers (up to 5 mg/ml)

Notes:

- 1) Bases in capital are phosphodiester and those in lower case are phosphorothioate. Palindromic sequences are underlined.
- 2) Negative control Contains GpC nucleotides instead of CpG.

Cat. #:ODNM362-1NC & Cat. #:ODNM362-5NC (negative control)

Sequence	5' tcgtcgctcggtcgaaacgacggtgat -3' (25 mer)
Purity	≥95%
Form and Storage	Powder. Store at -20C upto 1 year.
Shipping	Shipped at 4° C
Solubility	water, PBS or other buffers (up to 5 mg/ml)

Cat. #:ODNM362-F, FITC Conjugate

Sequence	5'- tcgtcgctcggtcgaaacgacggtgat -FITC' (25 mer)
Purity	≥95%
Form and Storage	Powder. After reconstitution, Store at -20oC up to 1 year
Shipping	Shipped at 4° C
Solubility	water, PBS or other buffers (up to 5 mg/ml)

Cat. #:ODNM362-B, Biotin Conjugate

Sequence	5'- tcgtcgctcggtcgaaacgacggtgat -Biotin (25 mer)
Purity	≥95%
Form and Storage	Powder. After reconstitution, Store at -20C up to 1 year.
Shipping	Shipped at 4° C
Solubility	water, PBS or other buffers (up to 5 mg/ml)

General references: Krieg,A.M(1995). Nature, 374(6522):546-9. Ballaz ZK(2001) 167(9). Bauer, (2001).PNAS.98(16):9237-42 Hartmann G (2003). Eur J Immunol.33 (6):1633-41.4.

for in vitro research only

Related Items

Catalog#	ProdDescription
ODN006-1	ODNBW006 Type B CpG ODN structure feature at the 5' and A-type CpG ODN structure feature at the 3' end
ODN1668-1	ODN 1668-Type B murine TLR9 Agonist-Antigen grade
ODN1668-1NC	ODN 1668- Type B murine TLR9 Agonist (Negative Control), antigen grade
ODN1826-1	ODN 1826- Type B murine TLR9 Agonist-antigen grade
ODN2006-1	ODN 2006 -Type B-human TLR9 agonist-antigen grade
ODN2007-1	ODN 2007-Type B bovine/porcineTLR9 agonist-antigen grade
ODN2216-1	ODN 2216-Type A human TLR9 Agonist.-antigen grade
ODN2395-5	ODN 2395-Type C human/murine TLR9 agonist-antigen grade
ODN4084F-1	ODN 4084-Type B Inhibitory TLR9 Antagonist.-antigen grade
ODN4084F-5	ODN 4084-Type B Inhibitory TLR9 Antagonist.-antigen grade
ODNTT-1NC	ODN TTAGGG-Class G Human-TLR 9 Antagonist, antigen grade
SIDON-1	Inhibitory iODN- class I/II hybrid, may also affect TLR7 and TLR8 signaling.

ODNM362

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