

Product Specification Sheet

ODN 1668-Type B-Murine TLR9 agonist Controls and Conjugates (antigen grade)

□ Cat. # ODN1668-1	ODN 1668- Type B murine TLR9 Agonist, antigen grade	Size: 1 mg
□ Cat. # ODN1668-5	ODN 1668- Type B murine TLR9 Agonist, antigen grade	Size: 5 mg
□ Cat. # ODN1668-1NC	ODN 1668- Type B murine TLR9 Agonist (Negative Control), antigen grade	Size: 1 mg
□ Cat. # ODN1668-5NC	ODN 1668- Type B murine TLR9 Agonist (Negative Control), antigen grade	Size: 5 mg
□ Cat. # ODN1668-F	ODN 1668- Type B murine TLR9 Agonist FITC Conjugate, antigen grade	Size: 50 ug
□ Cat. # ODN1668-B	ODN 1668- Type B murine TLR9 Agonist Biotin Conjugate, antigen grade	Size: 50 ug

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 human 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 1668 is a Type B murine TLR9 agonist.

Cat. #:ODN1668-1 & ODN1668-5

Sequence	5'-tccatgacgcttcctgatgct-3' (20 mer)
Mol. Wt	6383
Purity	≥95%
Form and storage	Powder. After reconstitution, Store at -20C up to 1 year.
Shipping	Shipped at 4° C
Endotoxin	<0.001 EU/μg
Solubility	water, PBS or other buffers (up to 5 mg/ml)

Note:

- 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. #:ODN1668-1NC & Cat. #:ODN1668-5NC (negative control)

Sequence	5'-tccatgacgcttcctgatgct-3' (20 mer)
Mol. Wt.	6383
Purity	≥95%
Form and Storage	Powder. After reconstitution, Store at -20C up to 1 year.
Shipping	Shipped at 4° C
Endotoxin	<0.0001 EU/μg
Solubility	water, PBS or other buffers (up to 5 mg/ml)

Cat. #:ODN1668-F, FITC Conjugate

Sequence	5'-tccatgacgcttcctgatgct-FITC (20 mer)
Purity	≥95%
Form and Storage	Powder. After reconstitution, Store at -20C up to 1 year
Shipping	Shipped at 4° C
Endotoxin	<0.0001 EU/μg
Solubility	water, PBS or other buffers (up to 5 mg/ml)

Cat. #:ODN1668-B, Biotin conjugate

Sequence	5'-tccatgacgcttcctgatgct-Biotin' (20 mer)
Purity	≥95%
Form and Storage	Powder. After reconstitution, Store at -20C up to 1 year
Shipping	Shipped at 4° C
Endotoxin	<0.0001 EU/μg
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.Heit A.(2004). Immunol.172 (3):1501-7

Related Items

Cat#

ATODN1-1, ATODN2-1, ATODN3-1, CIODN-1, GODN-1, ODN006-1 ODN1585-1, ODN1585-1NC, ODN1585-5, ODN1585-5NC, ODN1585-B ODN1585-F, ODN1668-1, ODN1668-1NC, ODN1668-5, ODN1668-5NC ODN1668-B, ODN1668-F, ODN1826-1, ODN1826-1NC, ODN1826-5 ODN1826-5NC, ODN1826-B, ODN1826-F, ODN2006-1, ODN2006-1NC ODN2006-5, ODN2006-5NC, ODN2006-B, ODN2006-F, ODN2007-1 ODN2007-1NC, ODN2007-5, ODN2007-5NC, ODN2041-1, ODN2088-1 ODN2088-1NC, ODN2088-5, ODN2088-5NC, ODN2216-1, ODN2216-1NC, ODN2216-5, ODN2216-5NC, ODN2216-B, ODN2216-F, ODN2336-1, ODN2336-1NC, ODN2336-5, ODN2336-5NC, ODN2336-F, ODN2395-1, ODN2395-1NC, ODN2395-5, ODN2395-5NC, ODN2395-F, ODN4084F-1, ODN4084F-5, ODNIHN1-1, ODNIHN47-1, ODNM362-1, ODNM362-1NC, ODNM362-5, ODNM362-5NC, ODNM362-B, ODNM362-F, ODN-NT-1, ODNTT-1, ODNTT-1NC, SIODN-1

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