ALPHA DIAGNOSTIC INTERNATIONAL

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Product Specification Sheet

Human Obestatin Antibodies

□ **Cat. #ODN2007-1**	ODN 2007- Type B bovine/porcine TLR9 Agonist, antigen grade	**Size: 1 mg**
□ **Cat. #ODN2007-5**	ODN 2007- Type B bovine/porcine TLR9 Agonist, antigen grade	**Size: 5 mg**
□ **Cat. #ODN2007-1NC**	ODN 2007- Type B bovine/porcine TLR9 Agonist (Negative Control), antigen grade	**Size: 1 mg**
□ **Cat. #ODN2007-5NC**	ODN 2007- Type B bovine/porcine TLR9 Agonist (Negative Control), antigen grade	**Size: 5 mg**

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 is strong stimulators of bovine/porcrine 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 IFNα.

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 2007 is a B type bovine/ porcine TLR9.

Cat#:ODN2007–1 & ODN2007-5

Sequence	5'-tcgtcgttgtcgttttgtcgtt-3' (22 mer)
Purity	≥95%
Mol.wt	7057.2
Form and storage	Powder, store at -20ºC. After reconstitution, Store at -20ºC up to 6 months.
Shipping	Shipped at 4º C
Solubility	water, PBS or other buffers (up to 5 mg/ml)

Cat. #:ODN2007-1NC & Cat. #:ODN2007-5NC (negative control)

Sequence	5'-tgctgcttgtgctttgtgctt-3' (22 mer)
Purity	≥95%
Mol.wt	7057.2
Form and Storage	Powder, store at -20ºC. After reconstitution, Store at -20ºC up to 6 months
Shipping	Shipped at 4º C
Endotoxin	<0.001 EU/µg
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.
2) Negative control Contains GpC nucleotides instead of CpG.

General references: Krieg, A.M nature. Ballaz ZK(2001) 167(9). Bauer, (2001).PNAS98(16):9237-42.Yuan S Cancer Biother Radiopharm. (2011)203-8

Related Items:

Catalog#	ProdDescription
ODN1668-1	ODN 1668-Type B murine TLR9 Agonist-Antigen grade
ODN1668-1NC	ODN 1668- Type B murine TLR9 Agonist (Negative Control), antigen grade
ODN1668-B	ODN 1668 -Type B murine TLR9 Agonist biotin conjugate- Antigen grade
ODN1668-F	ODN 1668-Type B murine TLR9 Agonist FITC conjugate-Antigen grade
ODN1826-1	ODN 1826- Type B murine TLR9 Agonist-antigen grade
ODN1826-1NC	ODN 1826- Type B murine TLR9 Agonist (Negative Control), antigen grade
ODN1826-B	ODN 1826- Type B murine TLR9 Agonist Biotin conjugate, antigen grade
ODN1826-F	ODN 1826- Type B murine TLR9 Agonist FITC conjugate, antigen grade
ODN2006-1	ODN 2006 -Type B-human TLR9 agonist-antigen grade
ODN2006-1NC	ODN 2006- Type B human TLR9 Agonist (Negative Control), antigen grade
ODN2006-B	ODN 2006 -Type B-human TLR9 agonist Biotin conjugate-antigen grade
ODN2006-F	ODN 2006 -Type B-human TLR9 agonist FITC conjugate-antigen grade
ODN2007-1	ODN 2007-Type B bovine/porcineTLR9 agonist-antigen grade
ODN2007-1NC	ODN 2007- Type B bovine/porcine TLR9 Agonist (Negative Control), antigen grade
ODN4084F-1	ODN 4084-Type B Inhibitory TLR9 Antagonist.-antigen grade
ODN4084F-5	ODN 4084-Type B Inhibitory TLR9 Antagonist.-antigen grade
ODN1585-1	ODN 1585-Type A murine TLR9 agonist-Antigen grade
ODN1585-1NC	ODN 1585-Type A murine TLR9 agonist (Negative Control), antigen grade
ODN2216-1	ODN 2216-Type A human TLR9 Agonist.-antigen grade
ODN2216-1NC	ODN 2216- Type A human TLR9 Agonist (Negative Control), antigen grade

Alpha Diagnostic Intl Inc., 6203 Woodlake Center Dr, San Antonio, TX 78244, USA; **Email**: service@4adi.com

India Contact:

Life Technologies (India) Pvt. Ltd.

306, Aggarwal City Mall, Opposite M2K Pitampura, Delhi – 110034 (INDIA). Ph: +91-11-42208000, 42208111, 42208222, Mobile: +91-9810521400, Fax: +91-11-42208444

Email: customerservice@lifetechindia.com Website: www.lifetechindia.com