



Product Specification Sheet

Neutral ODN -Inactive (neutral) control ODN without agonistic nor antagonistic activity.(Antigen grade)

Cat#ODN-NT-1

Neutral ODN control ODN without agonistic nor antagonistic activity antigen grade

Size: 1 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, inhibitory ODNs have been identified.

Class B INH-ODNs are broadly reactive linear ODNs that potently block CpG-induced activation in all TLR9-expressing cells.

Class R INH-ODNs are capable of making significant secondary structures and are less active in resting B cells.

Class G. Class G INH-ODNs contain multiple G3 triplets (like telomeric repeats) or G4 tetrads and are capable of making large G-aggregates. They inhibit not only signaling through the TLR9, but also activation through other TLRs. They are directly pro apoptotic in tumor cells and can additionally block stimulation of other immune cells.

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Sequence	5'-tgctcctggaggggtgt-3'
Mol. Wt	4821
Purity	≥95%
Form and storage	Powder. Store at -20C up to 1 year.
Shipping	Shipped at 4° C
Endotoxin	<0.002 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) Contains GpC nucleotides instead of CpG

General references: Krieg, A.M nature. Ballaz ZK(2001) 167(9). Bauer, (2001).PNAS98(16):9237-42 .Shimosato T, Cell Microbiol. 2006 Mar;8(3):485-95.

Related Items

ODN1585-1, ODN1668-1, ODN1826-1, ODN2006-1, ODN2336-1, ODN2395-1, ODN2007-1, ODNM362-1, ODN2088-1 ODN2216-1, ODNINH1-1, ODN4084F-1, ODNIH1-1, ODNIH47-1, ODNNT-1, GODN-1, CIODN-1, SIODN-1, DIODN-1, ATODN2-1, ATODN3-1

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