

TLR9 ligand

CpG ODN (1668), TLR9 ligand (Class B)

CATALOG #
AAA78493

REACTIVITY
Rat, Mouse

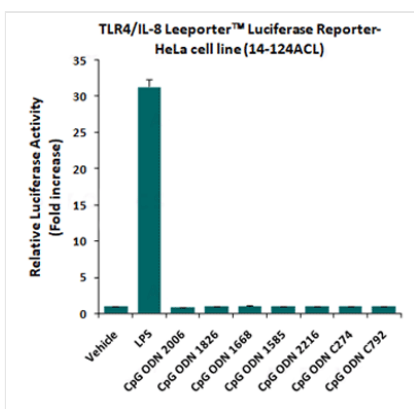
PRODUCT SYNONYMS

TLR9; CpG ODN (1668); TLR9 ligand (Class B); TLR9 ligand

PRODUCT SPECIFICATIONS

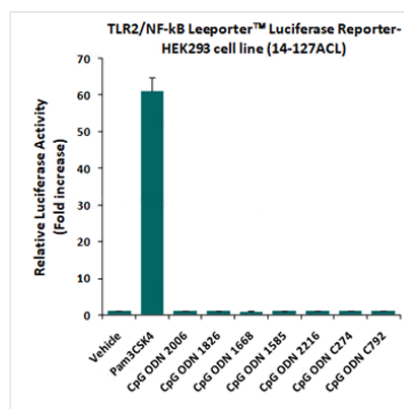
Reactivity	Rat, Mouse
Form/Format	1 mg/ml in endotoxin-free water
Sequence	5'-tccatga CGTtctgat gct-3'(Cla ssBODN1668 :Basesarep hosphoroth ioate.)
Sequence Length	1031
Preparation and Storage	Upon receipt, store at -20°C (Stable for at least 6 months). Avoid frequent freeze/thaw cycles.

IMAGES



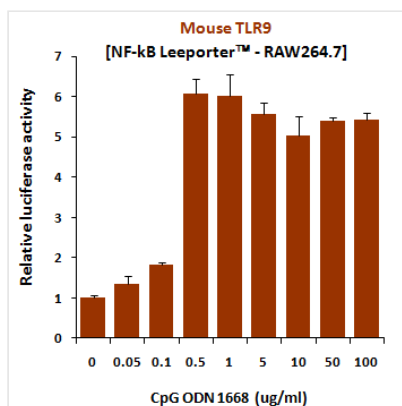
Application Data

Fig-3: Abeomics' CpG ODNs did not show any TLR4 agonist activity. TLR4/IL-8 Reporter™ HeLa cells were treated with various CpG ODNs at 100 ug/ml as well as a positive TLR4 agonist, LPS, at 10 ng/ml for 16 h, and luciferase activity was then analyzed.



Application Data

Fig-2: Abeomics' CpG ODNs did not show any TLR2 agonist activity. TLR2/NF-kB Reporter™ HEK293 cells were treated with various CpG ODNs at 100 ug/ml as well as a positive TLR2 agonist, Pam3CSK4, at 10 ng/ml for 16 h, and luciferase activity was then analyzed.



Application Data

Fig-1: Induction of mouse TLR9 activity by CpG ODN 1668.

ADDITIONAL INFORMATION

Related Product Information for TLR9 ligand	Synthetic oligodeoxynucleotides (ODN) containing unmethylated deoxycytosine-deoxyguanosine (CpG) motif are equivalent to bacterial DNA in the immunostimulatory activity, which can induce innate immunity via Toll-like receptor 9 (TLR9) in mammals. There are three major classes of CpG ODNs, and each ODN class exhibits different stimulatory effects on immune cell activation. Class A ODNs are potent inducers of IFN-alpha that leads to the plasmacytoid dendritic cell (pDC) maturation. Class B ODNs are relatively weak inducers of type I IFNs but strong stimulators of human B cells and monocyte maturation. Class C ODNs combine elements of both Classes A and B ODNs, which can induce IFN-alpha in pDC and activation of B cells.
Product Categories/Family for TLR9 ligand	Ligands and Inhibitors ; TLR Ligands

NCBI AND UNIPROT INFORMATION

NCBI GI #	229473723
NCBI GeneID	54106
NCBI Official Full Name	TLR9, partial
NCBI Official Synonym Full Names	toll like receptor 9
NCBI Official Symbol	TLR9
NCBI Official Synonym Symbols	CD289
NCBI Protein Information	toll-like receptor 9
UniProt Protein Name	Toll-like receptor 9
UniProt Gene Name	TLR9

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/mouse-rat-ligand/tlr9/78493>