

ODN ligand

CpG ODN (2006), TLR9 ligand (Class B)

CATALOG #
AAA78390

REACTIVITY
Human

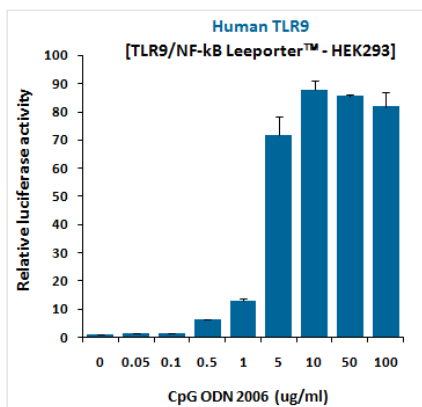
PRODUCT SYNONYMS

ODN; CpG ODN (2006); TLR9 ligand (Class B); ODN ligand

PRODUCT SPECIFICATIONS

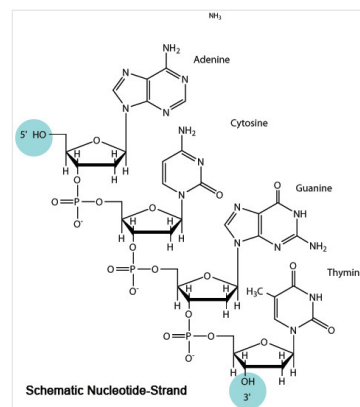
Reactivity	Human
Form/Format	1 mg/ml in endotoxin-free water
Preparation and Storage	Upon receipt, store at -20 degree C (Stable for at least 6 months). Avoid frequent freeze/thaw cycles.

IMAGES



Application Data

Fig-2: Induction of human TLR9 activity by CpG ODN 2006.



Structure

Fig-1: Chemical structure of CpG ODN

ADDITIONAL INFORMATION

Related Product Information for ODN ligand

Sequence: 5'-tCGtCGttttgtCGttttgtCGtt-3' (Class B ODN 2006: Bases are phosphorothioate.) 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 ODN ligand

[Ligands and Inhibitors](#); [TLR Ligands](#)

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.