

Product Datasheet

CpG oligodeoxynucleotides

NBP2-31134

Unit Size: 0.1 mg

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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NBP2-31134

CpG oligodeoxynucleotides

Product Information	
Unit Size	0.1 mg
Concentration	Please see the protocols for proper use of this product. If no protocol is available, contact technical services for assistance.
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Buffer	Sterile water

Product Description	
Description	<p>Human Sequence CpG ODN (2006) Type B: 5' <i>T*C*G*T*C*G*T*T*T*G*T*C*G*T*T*T*G*T*C*G*T*T 3'</i></p> <p>(* Indicates a phosphorothioate modification)</p> <p>Negative Control oligo: 5' TGCTGCTTTTGTGCTTTTGTGCTT 3'</p> <p>Functionality: This product is useful for the activation of TLR9 and the stimulation of TLR9 has been reported with 5-20 ug/ml.</p>
Species	Human
Specificity/Sensitivity	CpG ODN Type B (2006)
Product Application Details	
Applications	Functional, In vitro assay, Ligand Activation
Recommended Dilutions	Functional reported in scientific literature (PMID 25957979), In vitro assay reported in scientific literature (PMID 25957979), Ligand Activation 5-20 ug/ml
Application Notes	A TLR9/NF-kB SEAP reporter construct in a HEK 293 cell line was used as a model system for studying hTLR9 activation.

Publications

Nohmi K, Tokuhara D, Tachibana D et al. Zymosan Induces Immune Responses Comparable with Those of Adults in Monocytes, Dendritic Cells, and Monocyte-Derived Dendritic Cells from Cord Blood. J. Pediatr. 2015-05-06 [PMID: 25957979] (Func, In vitro, LA, Human)

Details:

Zymosan, TLR2 ligand (Imgenex IMG-2212) was used for in-vitro stimulation experiments involving human heparinized cord or adult blood Monocytes, peripheral blood dendritic cells (DCs) and monocyte-derived DCs (MoDCs). Zymosan was employed at 1 ug/mL concentration on Monocytes as well as on MoDCs and at 0.5 ug/mL on DCs. See full text for experimental details and results.





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