Creative Enzymes®

Class A CpG oligonucleotide (Mouse specific)

Cat. No. LIGC-010

Lot. No. (See product label)

Introduction

Description	CpG ODNs are synthetic oligonucleotides that contain unmethylated CpG dinucleotides in specific sequence contexts (CpG motifs). These CpG motifs are present at a 20-fold greater frequency in bacterial DNA than in mammalian DNA. CpG ODNs are recognized by Toll-like receptor 9 (TLR9), which leads to strong immunostimulatory effects. ODN 1585 is a class A CpG ODN specific for mouse TLR9. Class A CpG ODNs are characterized by a central, phosphodiester, CpG-containing palindromic motif and a 3'phosphorothioate poly-G string.They induce high IFN-α production from plasmacytoid dendritic cells (pDCs) but are weak stimulators of TLR9-dependent NF-κB signaling.
Synonyms	CpG oligonucleotides; ODNs; ODN 1585; CpG ODNs; CpG

Product Information

Form	Lyophilized powder
Concentration	Working concentration: 1-5 μm
Specificity	murine TLR9 agonist
Solubility	5 mg/ml in water
Substrates	Factor Xa

Storage and Shipping Information

Storage	Upon receipt, store at -20 °C.