

## 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- $\alpha$  production from plasmacytoid dendritic cells (pDCs) but are weak stimulators of TLR9-dependent NF- $\kappa$ B signaling.

**Synonyms** CpG oligonucleotides; ODNs; ODN 1585; CpG ODNs; CpG

### Product Information

**Form** Lyophilized powder

**Concentration** Working concentration: 1-5  $\mu$ m

**Specificity** murine TLR9 agonist

**Solubility** 5 mg/ml in water

**Substrates** Factor Xa

### Storage and Shipping Information

**Storage** Upon receipt, store at -20 °C.