

Contents

- 1. Description
- 2. **Background information**
- Applications 3.
 - 3.1 General applications
 - 3.2 Specific applications
- Instructions for use 4.
 - 4.1 Recommended concentrations
 - 4.2 Reconstitution protocol
- References 5.

1. Description

Components	130-100-275: 200 μg lyophilized ODN 1 mL 1× TE Buffer
	or
	130-100-276: 1 mg lyophilized ODN 1 mL 1× TE Buffer.
Description	(murine) B-class control oligodeoxyribonucleotide (ODN)
Product format	Lyophilized product without carrier protein or preservatives.
Sequence	dT*dC*dC*dA*dT*dG*dA*dG*dC*dT*dT*dC* dC*dT*dG*dA*dG*dC*dT*dT * Phosphorothioate backbone
Endotoxin level	Low endotoxin (<1 EU/mg) as determined by kinetic Limulus Amebocyte Lysate (LAL) assay.
Storage	Store lyophilized product at -20 °C. Upon reconstitution, aliquots should be stored at -20 °C and are stable for 6 months. Avoid repeated freeze-thaw cycles. The expiration date

2. Background information

TLR9 is a prominent member of the toll-like-receptor (TLR) family recognizing pathogen-associated molecular patterns. TLR9 recognizes specifically unmethylated CpG motifs in bacterial DNA leading to activation of immune cells^{1,2}.

is indicated on the vial label.

These effects can be mimicked by short synthetical ODNs containing unmethylated CpG motifs3.

Control compounds for CpG ODNs share the sequence with their stimulatory counterparts but contain GpC dinucleotides instead of the CpG motifs and thus control for the CpG specificity of the effects.

122.02

ODN 1826 Control (ODN 2138)

Order no. 130-100-275 Order no. 130-100-276

3. Applications

ODN 1826 Control (ODN 2138) can be used as a sequence control for murine B-class ODN 1826 (# 130-100-103, # 130-100-274).

4. Instructions for use

4.1 Recommended concentrations

Recommended concentrations for use are

for human and murine immune cells: 0.05–2 μ M

for recombinant cell lines: $0.05-10 \ \mu M$

4.2 Reconstitution protocol

- Spin down pellet. 1.
- a) For 200 µg lyophilized ODN: 2. To obtain a 200 µM solution resuspend pellet in 157 µL of 1× TE Buffer.
 - ▲ Note: Alternatively, PBS or water can be used for reconstitution.
 - b) For 1 mg lyophilized ODN: To obtain a 200 µM solution resuspend pellet in 785 µL of 1× TE Buffer.
 - ▲ Note: Alternatively, PBS or water can be used for reconstitution.
- 3. Vortex and incubate overnight at 4 °C.
- Store aliquots at -20 °C. 4.

5. References

- Hemmi, H. et al. (2000) A Toll-like receptor recognizes bacterial DNA. Nature 1. 408:740-745.
- Krieg, A. M. et al. (1995) CpG motifs in bacterial DNA trigger direct B-cell activation. Nature 374: 546-549.
- Bauer, S. et al. (2001) Human TLR9 confers responsiveness to bacterial DNA 3. via species-specific CpG motif recognition. Proc. Natl. Acad. Sci. U.S.A. 98: 9237-9242.

Refer to www.miltenyibiotec.com for all data sheets and protocols. Miltenyi Biotec provides technical support worldwide. Visit www.miltenyibiotec.com/local to find your nearest Miltenyi Biotec contact.

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