ODN 1668 (TLRGRADE®) (synthetic)

TLR9 ligand

CpG oligodeoxynucleotide (Type B) with phosphorothioate backbone. Specific ligand for mouse TLR9 (Toll-like receptor 9).

Citations: 5 View Online »

Ordering Information Order Online »

ALX-746-001-C100	100µg

Manuals, SDS & CofA View Online »

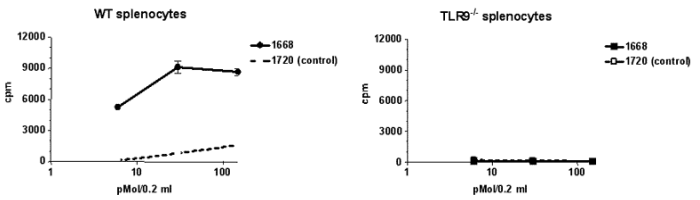


Figure 2: TLR9-dependent mitogenic activity of ODN 1668 (TLRGRADE®) (synthetic) (Prod. No. ALX-746-001) in mouse splenocytes. **Method:** Culture of 5×10^5 cells per 200µl well was performed in serum-free conditions after addition of ODNs at the indicated concentrations. Cell proliferation was analyzed after 72 hours with a 16 hours ^{3}H-thymidine pulse.Only CpG ODN 1668 (Prod. No. ALX-746-001)

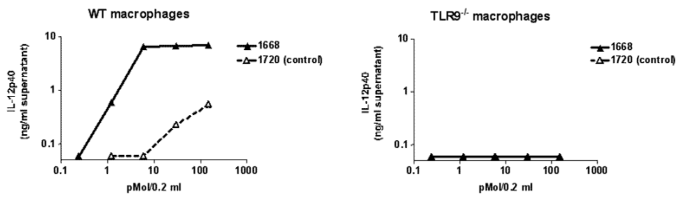


Figure 1: TLR9-dependent activation of mouse macrophages by ODN 1668 (TLRGRADE®) (synthetic) (Prod. No. ALX-746-001). **Method:** Culture of 5×10^5 cells per 200µl well was performed in serum-free conditions after addition of ODNs at the indicated concentrations. Cell activation was measured by IL12-p40 induction. Only CpG ODN 1668 (Prod. No. ALX-746-001)

Handling & Storage

Use/Stability	As indicated on product label or CoA when stored as recommended. Aqueous stock solution is stable for 1 day when stored at +4°C.
Handling	Protect from light. For maximum product recovery after thawing, centrifuge the vial before opening the cap. After reconstitution, prepare aliquots and store at -20°C.
Long Term Storage	+4°C
Shipping	Ambient Temperature

Regulatory Status

RUO - Research Use Only

Product Details

Couple Target	TLR, TLR9
Couple Type	Ligand
Formulation	Lyophilized. Sterile.
MW	6383 (ammonium salt)
Purity Detail	Activity and endotoxin tested – TLRGRADE®.
Quantity	100µg (~15nmol). Sufficient for at least 100 cellular activation assays at 0.1-0.5µg/well when performed in a 200µl assay volume (i.e. 96 well microtiter plate).
Reconstitution	For a 100µM stock solution, dissolve the total vial content in 150µl endotoxin-free water (included) or PBS (to order separately). To obtain optimal dissolving we recommend the following procedure:- Add 50% of the solvent and let dissolve for 10 min.- Add remaining 50% of the solvent and mix thoroughly.- Moderate warming may aid dissolving.
Sequence	5’-tccatga**cg**ttcctgatgct-3’ (lower case letters indicate phosphorothioate linkage).
Source	Synthetic.

Technical Info / Product Notes

Includes 1 vial of ddWater (endotoxin-free) (Prod. No. ALX-505-008).
For inactive control compound, please see Prod. No. ALX-746-200.

Last modified: May 29, 2024

ENZO LIFE SCIENCES, INC.
Phone: 800.942.0430
info-usa@enzolifesciences.com

European Sales Office
ENZO LIFE SCIENCES (ELS) AG
Phone: +41 61 926 8989
info-eu@enzolifesciences.com

Belgium, The Netherlands & Luxembourg
Phone: +32 3 466 0420
info-be@enzolifesciences.com

France
Phone: +33 472 440 655
info-fr@enzolifesciences.com

Germany
Phone: +49 7621 5500 526
info-de@enzolifesciences.com

UK & Ireland
Phone (UK customers): 0845 601 1488
Phone: +44 1392 825900
info-uk@enzolifesciences.com

For local distributors and detailed product information visit us online: enzo.com All product names, logos, and brands are the property of their respective owners.