Neutral-ODN (Control for iODNs) (endotoxin-free) (synthetic)

Inactive (neutral) control

Inactive (neutral) control ODN for *in vivo* use in rodents (50-150µg per injection) without agonistic nor antagonistic activity.

Several groups have studied the sequence requirements, specificity, signalling pathways and kinetics of the TLR (Toll-like receptor) 9 suppression by ‘inhibitory DNA motifs’, which led to a revised classification of iODNs, that is independent of the previously thought species preference.
Class I: G-stretch ODNs: TLR9-specific competitors, some iODNs may also affect TLR7 and TLR8 signaling
Class II: ODNs with telomeric repeats: TLR-independent inhibitors of STAT signalling (cellular uptake via an “ODN receptor”?)
Class III: Inhibitors of DNA uptake in a sequence independent manner
Class IV: Long phosphorothioate ODNs as direct competitors of TLR9 signaling in a sequence independent manner
Slightly modified phosphodiester versions of the most potent inhibitory ODNs were also able to profoundly block the immune activation of macrophages and proved to be valuable tools for in vivo use in experimental animal models of inflammatory and auto-immune diseases.

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Ordering Information Order Online »

ALX-746-256-C100	100µg

Manuals, SDS & CofA View Online »

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

Endotoxin Content	<0.002EU/µg
Formulation	Lyophilized. Sterile.
MW	4821 (ammonium salt)
Quantity	~20nmol (100µg). Working concentration depends upon concentration, type and MW of stimulating CpG ODN, the cellular system and read-out used.
Reconstitution	For a 100µM stock solution, dissolve the total vial content in 270µl 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'-tgctcctggaggggttgt-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).

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

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