

ODN 1826

## Chemical Properties

CAS No. : 202668-42-6

Formula:

Molecular Weight:

Storage: Store at low temperature  
Powder: -20°C for 3 years | In solvent: -80°C for 1 year  
Actual storage temperature shall be subject to the COA.

## Biological Description

|               |  |
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| Description   | ODN 1826 is a 20-mer DNA strand, a TLR9 agonist and an immunostimulant, with anti-tumor and cardioprotective effects, promoting apoptosis, and stimulating the production of NO and iNOS. ODN 1826 is a CpG DNA mimetic that can be used as an adjuvant for synthetic vaccines.  |
| Targets(IC50) | Apoptosis,NOS,NO Synthase,TLR  |
| In vivo       | Eight to twelve week old C57BL/6J wild-typ (WT) mice. To determine the required ODN 1826 concentration for a proinflammatory response, WT mice were injected intravenously (i.v.) with 3nM, 10nM, or 30nM ODN 1826 suspended in 200µl phosphate buffered saline (PBS) or vehicle (PBS). Dose-dependent IL-6 induction and 30nM ODN 1826 led to the highest IL-6 formation. [1] |

## Solubility Information

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| Solubility | DMSO: 50 mg/mL,Sonication is recommended.<br>(< 1 mg/ml refers to the product slightly soluble or insoluble) |
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## Reference

Krogmann AO, et al. Proinflammatory Stimulation of Toll-Like Receptor 9 with High Dose CpG ODN 1826 Impairs Endothelial Regeneration and Promotes Atherosclerosis in Mice. PLoS One. 2016 Jan 11;11(1):e0146326.

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