Product Datasheet

CpG oligodeoxynucleotides Mouse
NBP2-26235

Unit Size: 2 Vials

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

Publications: 1

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NBP2-26235
CpG oligodeoxynucleotides Mouse

Product Information

<table>
<thead>
<tr>
<th>Unit Size</th>
<th>2 Vials</th>
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</thead>
<tbody>
<tr>
<td>Concentration</td>
<td>Please see the protocols for proper use of this product. If no protocol is available, contact technical services for assistance.</td>
</tr>
<tr>
<td>Storage</td>
<td>Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.</td>
</tr>
<tr>
<td>Buffer</td>
<td>Sterile water</td>
</tr>
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Product Description

<table>
<thead>
<tr>
<th>Species</th>
<th>Mouse</th>
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<tbody>
<tr>
<td>Specificity/Sensitivity</td>
<td>CpG ODN (1826) with negative control oligo, TLR9 ligand (mouse)</td>
</tr>
<tr>
<td>Immunogen</td>
<td>Sequence: CpG oligodeoxynucleotides Mouse- 5’ T<em>C</em>C<em>A</em>T<em>G</em>A<em>C</em>G<em>T</em>T<em>C</em>C<em>T</em>G<em>A</em>C<em>G</em>T<em>T 3’ (</em> Phosphorothioate bonds) Negative Control oligo-5’ TCCATGAGCTTCCTGAGCTT 3’</td>
</tr>
</tbody>
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Kit Components

| NBP2-31132: CpG oligodeoxynucleotides Mouse (1826), NBP2-31133: Negative Control oligodeoxynucleotide Mouse |

Product Application Details

<table>
<thead>
<tr>
<th>Applications</th>
<th>Ligand Activation</th>
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</thead>
<tbody>
<tr>
<td>Recommended Dilutions</td>
<td>Ligand Activation 5-20 ug/ml</td>
</tr>
<tr>
<td>Application Notes</td>
<td>This product can be useful for Activation of mouse TLR9. Stimulation of mouse TLR9 has been reported with 5-20 ug/ml.</td>
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Images

CpG oligodeoxynucleotides Mouse [NBP2-26235] - CpG oligodeoxynucleotides Mouse Evaluation of the mCpG ODN 1826 ligand activity on NF-kB SEAPorter RAW cell line. Cell line is a stably transfected RAW 264.7 cell line that expresses the secreted alkaline phosphatase (SEAP) reporter gene under the transcriptional control of an NF-kB response element. RAW 264.7 cells endogenously express Toll-like receptor 9 (TLR9). Cells were plated in 96-well plates at 0.85 x 10^5 cells/well. After 16 h, cells were stimulated with various amounts of mCpG ODN 1826 for 24 h. SEAP was analyzed using the SEAPorter Assay Kit. Data Summary: mCpG ODN 1826 specifically activated the TLR9-depended NF-kB/SEAP reporter cells in a dose dependent manner.

Publications


Details:
PAM3CSk4(IMG-2201) & CpG-ODN (IMG-2209Mpt). CD103+ and CD11bhigh mouse lung dendritic (LDCs) cells were stimulated with LPS and with or without PAM3CSk4 and CpG-ODN. Cytokine levels were measured by ELISA, Fig 7.
Procedures

MSDS (NBP2-26235)
Hazard Information
Chemical Name: ODN 1826 & Negative Control
Chemical Formula: CpG ODN- 5’ TCCATGACGTTCTGACGTT 3’ (in bold is phosphorothiate linkage)
CAS Number: N/A
EEC-No: N/A

First Aid Measures
Eye Contact: May cause eye irritation.
Skin Contact: May cause skin irritation. May be harmful if absorbed through the skin.
Inhalation: May cause respiratory tract irritation. May be harmful if inhaled.
Ingestion: May be harmful if swallowed.

Fire Fighting Measures
Special risks: N/A
Suitable Extinguish Media: Water spray, carbon dioxide, dry chemical powder or appropriate foam.

Accidental Release Measures
Eyes: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Consult a physician.
Skin: Get medical aid immediately. Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. SPEEDY ACTION IS CRITICAL!
Ingestion: If swallowed, get medical aid immediately. Only induce vomiting if directed to do so by medical personnel. Never give anything by mouth to an unconscious person.
Inhalation: Remove from exposure and move to fresh air immediately. If breathing is difficult, give oxygen. SPEED IS ESSENTIAL, OBTAIN MEDICAL AID IMMEDIATELY. Do not use mouth-to-mouth resuscitation if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.
Notes: Consult a physician. Show this safety data sheet to the physician. Move away from the dangerous area.

Handling and Storage
Handling: Avoid contact with eyes, skin and clothing. Avoid prolonged or repeated exposure. Avoid inhalation. Use personal protective equipment (i.e. impermeable gloves, lab coat or apron).
Store at -20 degrees C. Store in a tightly closed container. Stable under recommended storage conditions

Exposure Controls / Personal Protection
Physical and Chemical Properties
Form: Powder
Color: Colorless
Odor: Odorless
Melting Point: No data available
Boiling Temperature: No data available
Density: No data available
Vapor Pressure: No data available
Solubility in Water: Very soluble
Flash Point: No data available
Explosion limits: No data available
Ignition Temperature: No data available

Stability and Reactivity
Stability: Stable
Hazardous Polymerization: Will not occur.
Materials to avoid: Strong oxidizing agents.
Hazardous Decomposition Products: Decomposition products are not hazardous.
HMIS Classification: Health Hazard 0, Flammability Hazard 0, Reactivity Hazard 0
NFPA Rating: Health Hazard 0, Fire 0, Reactivity Hazard 0.
Disposal Considerations
Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material. Must not be disposed together with household garbage.

Other Information
The information contained in this material safety datasheet is believed to be accurate but it is the responsibility of the user or supplier to determine the applicability of these data to the formulation of necessary safety precautions. NOVUS shall not be held responsible for any damage resulting from the use of the above product or the information contained in this material safety data sheet.

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