Product Datasheet

Imidazoquinoline Resiquimod (R-848), TLR7 and TLR8 ligand

NBP2-26231

Unit Size: 0.5 mg

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

Publications: 4

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NBP2-26231
Imidazoquinoline Resiquimod (R-848), TLR7 and TLR8 ligand

Product Information

<table>
<thead>
<tr>
<th>Unit Size</th>
<th>0.5 mg</th>
</tr>
</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>500 ug in 500 ul of sterile water</td>
</tr>
</tbody>
</table>

Product Description

| Species | Human |
| Reactivity Notes | Human reactivity reported in scientific literature (PMID: 25532693) |
| Immunogen | Imidazoquinoline Resiquimod (R-848), TLR7 and TLR8 ligand is a low molecular weight synthetic molecule of the Imidazoquinoline family. It has potent immunostimulatory activity. It stimulates antibody secretion, cytokine production, protection from apoptosis and CD80 up-regulation. R-848 has been shown to activate only TLR7 and TLR8. This activation is MyD88 dependent and leads to the induction of the transcription factor NF-kB. |
| Notes | Purity: >98% (HPLC) Appearance: White to off-white solid. |

Product Application Details

| Applications | Functional |
| Recommended Dilutions | Functional |
| Application Notes | Identity: Identity determined by MS, 1H-NMR and 13C-NMR. Formula: C17H22N4O2 This Product is useful for Activation of mouse TLR7 and human TLR7 and TLR8. Stimulation of TLR8 has been achieved with 0.5-5 ug/ml. Use in Functional reported in scientific literature (PMID 26134251) |
Imidazoquinoline Resiquimod (R-848), TLR7 and TLR8 ligand [NBP2-26231] - Imidazoquinoline Resiquimod (R-848), TLR7 and TLR8 ligand stimulation with R-848 measured by SEAP Expression 293T cells were transfected with pCMV/TLR8 plasmid and pNF-kB/SEAP plasmid using Lipofectamin 2000. After 48 hrs of transfection, 2 ug/ml or 5 ug/ml of R-848 was added. Cells were incubated at 37°C for 24 hrs. Transfected cell supernatant was collected and analyzed using NF-kB SEAPorterAssay kit.

Imidazoquinoline Resiquimod (R-848), TLR7 and TLR8 ligand [NBP2-26231] - Imidazoquinoline Resiquimod (R-848), TLR7 and TLR8 ligand specifically activated the TLR7- or TLR8-dependent NF-kB/SEAP reporter cells in a dose dependent manner.

Imidazoquinoline Resiquimod (R-848), TLR7 and TLR8 ligand [NBP2-26231] - C17H22N4O2

Publications


Datta S, Barrera N, Pavicic PG et al. cEBP Homologous Protein Expression in Macrophages Regulates the Magnitude and Duration of IL-6 Expression and Dextran Sodium Sulfate Colitis J. Interferon Cytokine Res. 2015 Jul 02 [PMID: 26134251] (Func)


Details:
human PBMCs
Limitations
This product is for research use only and is not approved for use in humans or in clinical diagnosis. Support products are guaranteed for 6 months from date of receipt.

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