**Resveratrol**

NF-κB inhibitor
Catalog # tlr-resv

For research use only
Version # 12E22-MM

**PRODUCT INFORMATION**

**Content:**
100 mg Resveratrol provided lyophilized

**Storage and stability:**
- Resveratrol is shipped at room temperature. Store lyophilized product at -20°C. Product is stable for 1 year.
- Upon resuspension in DMSO, Resveratrol is stable for 3 months at 4°C. Protect from light.

**DESCRIPTION**

Resveratrol (3,4',5-trihydroxy-trans-stilbene) is a polyphenol found in plants known to possess anti-inflammatory and chemopreventive properties. Resveratrol has been shown to inhibit the expression of proinflammatory markers, including inducible nitric oxide synthase and cyclooxygenase-2 in macrophages and cancer cells, block TRIF-dependent signaling pathway of TLR3 and TLR4 and modulate bacterial phagocytosis of macrophages. Resveratrol may exert these diverse effects by suppressing NF-κB activation.


**CHEMICAL PROPERTIES**

**CAS number:** 501-36-0

**Formula:** C14H12O3

**Molecular weight:** 228.24

**Appearance:** Off-white to pale yellow color

**Solubility:** 20 mg/ml in DMSO provides a clear yellow solution

**Purity:** >98%

**METHODS**

**Preparation of stock solution (20 mg/ml):**
To obtain a 20 mg/ml stock solution:
1. Add 250 µl DMSO to 5 mg Resveratrol. This provides a solution at 20 mg/ml (88 mM).
2. Vortex until complete solubilization.
3. Aliquote and store at 4°C.
4. Once resveratrol is solubilized, dilutions can be prepared by adding sterile water or culture medium. Aqueous dilutions of resveratrol should not be stored for more than 1 day.

**Working concentration:** 10-100 µM (2.3 - 23 µg/ml)

**NFκB inhibition:**
To assess the role of NF-κB, pretreat cells, such as macrophages or HEK293 cells transfected with one or several TLR genes, for 1 hour with or without resveratrol at 10-100 µM and then incubate at 37°C with the appropriate TLR ligand for 1 to 6 hours. Detect NF-κB inhibition using the appropriate detection system.

**RELATED PRODUCTS**

<table>
<thead>
<tr>
<th>Product</th>
<th>Catalog Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>HEK-Blue hTLR2 cells (SEAP reporter cells)</td>
<td>hkb-htrl2</td>
</tr>
<tr>
<td>pUNO1-hTLR2 (plasmid with human gene)</td>
<td>puno-htrl2</td>
</tr>
<tr>
<td>pUNO-mTLR2 (plasmid with mouse gene)</td>
<td>puno-mtlr2</td>
</tr>
<tr>
<td>Pam3CSK4 (TLR2 ligand)</td>
<td>tlr-lms</td>
</tr>
</tbody>
</table>

---

**InvivoGen**

3950 Sorrento Valley Blvd. Suite 100
San Diego, CA 92121 - USA