**PRODUCT INFORMATION**

**Content:**
5 mg piceatannol provided lyophilized

**Storage and stability:**
- Piceatannol is shipped at room temperature. Store lyophilized product at 4°C. This product is photosensitive. Protect from light. Lyophilized product is stable for 1 year when properly stored.
- Solutions of piceatannol are stable for 1 month at 4°C under argon. This product needs to be stored under argon to prevent oxidization. Protect from light.

**DESCRIPTION**

Piceatannol (3, 4’, 3’, 5-trans-trihydroxystilbene) is a resveratrol analogue with antioxidant, anticancer and anti-inflammatory activities. Piceatannol has been shown to inhibit NF-κB and JAK-1, two key players in the immune response. Piceatannol also inhibits Syk which plays a crucial role in the signaling pathway of C-type lectin receptors.


**CHEMICAL PROPERTIES**

**CAS number:** 10083-24-6  
**Formula:** C14H12O4  
**Molecular weight:** 244.2  
**Synonyms:** (E)-4-[2-(3,5-Dihydroxyphenyl)ethenyl] -1,2-benzenediol, 3,3',4,5'-Tetrahydroxy-trans-stilbene  
**Solubility:** 10 mg/ml in DMSO  
**Appearance:** Off-white powder  
**Purity:** >98% (HPLC)

**METHODS**

**Preparation of stock solution (10 mg/ml)**
To obtain a 10 mg/ml stock solution:
1. Add 500 μl DMSO to 5 mg piceatannol. This provides a solution at 10 mg/ml (41 mM).
2. Vortex until complete solubilization.
3. Prepare aliquots of piceatannol and store at 4˚C under argon.
4. Once piceatannol is solubilized, dilutions can be prepared by adding sterile water or culture medium.

**Working concentration:** 1 - 25 μM (244 ng/ml - 6.1 μg/ml)

**Syk inhibition:**
To assess the role of Syk, pretreat cells, such as macrophages or HEK293 cells transfected with Dectin-1, for 1 hour with or without piceatannol at 1 - 25 μM and then incubate at 37°C with the appropriate Dectin-1 ligand for 1 to 6 hours. Detect Syk inhibition using the appropriate detection system.

**RELATED PRODUCTS**

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<th>Product</th>
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<td>raw-sp</td>
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<tr>
<td>pUNO-hDectin-1b</td>
<td>puno-hdectin1b</td>
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<tr>
<td>pUNO-mDectin-1</td>
<td>puno-mdectin1</td>
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<td>Dectin-1 ligands</td>
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<tr>
<td>Zymosan</td>
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<td>HKSC (Heat-killed S. cerevisiae)</td>
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<td>WGP Dispersable</td>
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<tr>
<td>WGP Soluble (control for WGP Dispersable)</td>
<td>puno-wgps</td>
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