AG-CN2-0104

**Lactacystin**

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Concentration</th>
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</thead>
<tbody>
<tr>
<td>AG-CN2-0104-C100</td>
<td>100 µg</td>
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<tr>
<td>AG-CN2-0104-C200</td>
<td>200 µg</td>
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<tr>
<td>AG-CN2-0104-C500</td>
<td>500 µg</td>
</tr>
<tr>
<td>AG-CN2-0104-M001</td>
<td>1 mg</td>
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</tbody>
</table>

**Handling / Storage**
- **Shipping**: AMBIENT
- **Short Term Storage**: +4°C
- **Long Term Storage**: -20°C

Protect from light.

**Use / Stability**
Stable for at least 3 years after receipt when stored at -20°C.

MSDS available at www.adipogen.com or upon request.

**Product Specifications**
- **Source/Host**: Isolated from *Streptomyces lactacystinnaeus* strain OM-6519.
- **Purity**: ≥98% (HPLC)
- **Appearance**: White to off-white solid.
- **Solubility**: Soluble in water, methanol, ethanol, DMSO, pyridine, acetonitrile or dimethyl formamide. Insoluble in hexane, benzene, chloroform or ethyl acetate.

**Product Description**

- Induces neuritogenesis [1, 3].
- Potent and selective irreversible proteasome inhibitor. Specifically inhibits 20S proteasome (MCP; multicatalytic complex) [2, 4, 7]. Blocks proteasome activity by targeting the catalytic β-subunit [5].
- Apoptosis inducer [4, 6, 7, 10].
- Anticancer compound [6, 10, 13].
- Upregulates HSP70 and HSP22 [8].

**WARNING:** Intended for research use only. This product is not intended or approved for human, diagnostics, therapeutic or veterinary use. Use of this product for human or animal testing is extremely hazardous and may result in disease, severe injury, or death. **MATERIAL SAFETY DATA:** Review the complete Material Safety Data Sheet before use.
Induces differentiation and inhibits cell cycle progression in several tumor cell lines [9].
Inhibits NF-κB activation by inhibiting IκB degradation [11].
Cathepsin A inhibitor [12].
γ-Secretase activity inhibitor [14].
Anti-adipogenic [15, 16].
Autophagy inducer [17].

Product Specific References


