**Product Data Sheet**

**H-151**

- **Cat. No.**: HY-112693
- **CAS No.**: 941987-60-6
- **Molecular Formula**: C_{17}H_{17}N_{3}O
- **Molecular Weight**: 279.34
- **Target**: STING
- **Pathway**: Immunology/Inflammation
- **Storage**:
  - Powder: -20°C for 3 years
  - In solvent: -80°C for 6 months; -20°C for 1 month

**SOLVENT & SOLUBILITY**

**In Vitro**

DMSO: 100 mg/mL (357.99 mM; Need ultrasonic)

<table>
<thead>
<tr>
<th>Solvent Concentration</th>
<th>1 mg</th>
<th>5 mg</th>
<th>10 mg</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 mM</td>
<td>3.5799 mL</td>
<td>17.8993 mL</td>
<td>35.7987 mL</td>
</tr>
<tr>
<td>5 mM</td>
<td>0.7160 mL</td>
<td>3.5799 mL</td>
<td>7.1597 mL</td>
</tr>
<tr>
<td>10 mM</td>
<td>0.3580 mL</td>
<td>1.7899 mL</td>
<td>3.5799 mL</td>
</tr>
</tbody>
</table>

Please refer to the solubility information to select the appropriate solvent.

**In Vivo**

1. Add each solvent one by one: 5% DMSO >> 5% Tween-80 >> 90% PBS
   Solubility: 2.5 mg/mL (8.95 mM); Suspended solution; Need ultrasonic

2. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 2.08 mg/mL (7.45 mM); Clear solution

3. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: 2.08 mg/mL (7.45 mM); Suspended solution; Need ultrasonic

**BIOLOGICAL ACTIVITY**

**Description**

H-151 is a potent, selective and covalent antagonist of STING that has noteworthy inhibitory activity both in cells and in vivo. H-151 reduces TBK1 phosphorylation and suppresses STING palmitoylation. H-151 can be used for the research of autoinflammatory disease\(^1\).

**IC\(_{50}\) & Target**

<table>
<thead>
<tr>
<th>IC(_{50}) &amp; Target</th>
</tr>
</thead>
<tbody>
<tr>
<td>STING(^1)</td>
</tr>
</tbody>
</table>

**In Vitro**

- H-151 (0.02-2 μM) reduces IFNβ luciferase reporter measurements of HEK293T cells\(^1\).
- H-151 (0.5 μM; 2 h) inhibits the phosphorylation of TBK1 in THP-1 cells\(^1\).
H-151 (1 μM; 3 h) suppresses hsSTING palmitoylation\[1\].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

| In Vivo | H-151 (750 nmol per mouse; a single i.p.) markedly reduces systemic cytokine responses in CMA-treated mice\[1\].
H-151 (750 nmol per mouse; i.p. daily for 7 d) exhibits notable efficacy in Trex1\(^{-}\) mice that expressed a bioluminescent IFNβ reporter\[1\].
H-151 (750 nmol per mouse; i.p.) reaches effective systemic levels, displays a short half-life in the serum and forms an adduct to mmSTING in wild-type mice\[1\].
MCE has not independently confirmed the accuracy of these methods. They are for reference only. |

**CUSTOMER VALIDATION**

- Neuron. 2022 Nov 4;S0896-6273(22)00961-8.

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**REFERENCES**


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**Caution:** Product has not been fully validated for medical applications. For research use only.
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