**TCS PIM-1 1**

Cat. No.: HY-18086  
CAS No.: 491871-58-0  
Molecular Formula: C₁₈H₁₁BrN₂O₂  
Molecular Weight: 367.2  
Target: Pim  
Pathway: JAK/STAT Signaling  
Storage:  
- Powder: -20°C, 3 years; 4°C, 2 years  
- In solvent: -80°C, 6 months; -20°C, 1 month

**SOLVENT & SOLUBILITY**

**In Vitro**  
DMSO: ≥ 52 mg/mL (141.61 mM)  
*“≥” means soluble, but saturation unknown.*

<table>
<thead>
<tr>
<th>Preparing Stock Solutions</th>
<th>Solvent Concentration</th>
<th>Mass 1 mg</th>
<th>Mass 5 mg</th>
<th>Mass 10 mg</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 mM</td>
<td>2.7233 mL</td>
<td>13.6166 mL</td>
<td>27.2331 mL</td>
<td></td>
</tr>
<tr>
<td>5 mM</td>
<td>0.5447 mL</td>
<td>2.7233 mL</td>
<td>5.4466 mL</td>
<td></td>
</tr>
<tr>
<td>10 mM</td>
<td>0.2723 mL</td>
<td>1.3617 mL</td>
<td>2.7233 mL</td>
<td></td>
</tr>
</tbody>
</table>

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

**In Vivo**  
1. TCS PIM-1 1 is dissolved in 0.5% DMSO.[2]

**BIOLOGICAL ACTIVITY**

Description: TCS PIM-1 1(sc-204330) is a potent and selective ATP-competitive Pim-1 kianse inhibitor with IC50 of 50 nM, displays good selectivity over Pim-2 and MEK1/MEK2 (IC50 > 20,000 nM). IC50 value: 50 nM [1]  
Target: Pim-1  
TCS PIM-1 1 bound convincingly within the ATP-binding site of Pim-1 suggesting an ATP-competitive inhibitory mechanism. Preliminary data further suggested that 1 lacked in vitro inhibitory activity toward related serine/threonine kinases Pim-2 and MEK1/2 (IC50 > 20 IM). Hence, small molecules similar to TCS PIM-1 1 may serve as useful starting scaffolds for the development of other improved yet selective Pim-1 inhibitors.

**CUSTOMER VALIDATION**

Customer Validation:  
www.MedChemExpress.com
REFERENCES


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Tel: 609-228-6898  Fax: 609-228-5909  E-mail: tech@MedChemExpress.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA