**Product Data Sheet**

**CCT007093**

Cat. No.: HY-15880  
CAS No.: 176957-55-4  
Molecular Formula: $C_{15}H_{12}OS_2$  
Molecular Weight: 272.39  
Target: Others  
Pathway: Others  
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: $\geq 2.8 \text{ mg/mL (10.28 mM)}$  
*"≥" means soluble, but saturation unknown.*

<table>
<thead>
<tr>
<th>Preparing Stock Solutions</th>
<th>Solvent</th>
<th>Concentration</th>
<th>Mass 1 mg</th>
<th>Mass 5 mg</th>
<th>Mass 10 mg</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>1 mM</td>
<td>3.6712 mL</td>
<td>18.3560 mL</td>
<td>36.7121 mL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>5 mM</td>
<td>0.7342 mL</td>
<td>3.6712 mL</td>
<td>7.3424 mL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>10 mM</td>
<td>0.3671 mL</td>
<td>1.8356 mL</td>
<td>3.6712 mL</td>
</tr>
</tbody>
</table>

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

**BIOLOGICAL ACTIVITY**

**Description**  
CCT007093 is an effective PPM1D inhibitor that selectively reduces viability of human tumour cell lines. IC50 value: Target: PPM1DAs expected of a specific inhibitor, the toxicity of CCT007093 to PPM1D overexpressing cell lines after inhibitor treatment is P38 dependent [1]. Knockdown of WIP1 or treatment with the WIP1 inhibitor CCT007093 results in increased phosphorylation of known WIP1 targets, reduced HDM2 expression, and reduced growth specifically in WIP1 wild-type and high-expressing medulloblastoma cells [2]. CCT007093 treatment appeared to promote apoptosis in breast cancer cells and skin transformed keratinocytes that ectopically expressed Wip1, demonstrating that the effect of CCT007093 differs based on the level of Wip1 expression [3].

**REFERENCES**
