(R)-BAY1238097

Cat. No.: HY-112316A
CAS No.: 1564269-85-7
Molecular Formula: C₂₅H₃₃N₅O₃
Molecular Weight: 451.56
Target: Epigenetic Reader Domain
Pathway: Epigenetics
Storage: 4°C, stored under nitrogen

* In solvent: -80°C, 6 months; -20°C, 1 month (stored under nitrogen)

SOLVENT & SOLUBILITY

**In Vitro**
- DMSO: 150 mg/mL (332.18 mM; Need ultrasonic)
- H₂O: < 0.1 mg/mL (insoluble)

<table>
<thead>
<tr>
<th>Preparing Stock Solutions</th>
<th>Solvent Concentration</th>
<th>1 mg</th>
<th>5 mg</th>
<th>10 mg</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1 mM</td>
<td>2.2145 mL</td>
<td>11.0727 mL</td>
<td>22.1455 mL</td>
</tr>
<tr>
<td></td>
<td>5 mM</td>
<td>0.4429 mL</td>
<td>2.2145 mL</td>
<td>4.4291 mL</td>
</tr>
<tr>
<td></td>
<td>10 mM</td>
<td>0.2215 mL</td>
<td>1.1073 mL</td>
<td>2.2145 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: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 2.5 mg/mL (5.54 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (5.54 mM); Clear solution

BIOLOGICAL ACTIVITY

**Description**
(R)-BAY1238097 is the R-isomer with lower activity of BAY1238097. BAY1238097 is a potent and selective inhibitor of BET binding to histones and has strong anti-proliferative activity in different AML (acute myeloid leukemia) and MM (multiple myeloma) models through down-regulation of c-Myc levels and its downstream transcriptome[1][2].

**IC₅₀ & Target**
BET[1].

REFERENCES

[1] [2]


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