FG-2216

Cat. No.: HY-15641
CAS No.: 223387-75-5
Molecular Formula: C₁₂H₉ClN₂O₄
Molecular Weight: 280.66
Target: HIF/HIF Prolyl-Hydroxylase
Pathway: Metabolic Enzyme/Protease
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 : ≥ 31 mg/mL (110.45 mM)
* “≥” means soluble, but saturation unknown.

Preparing Stock Solutions

<table>
<thead>
<tr>
<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>3.5630 mL</td>
<td>17.8151 mL</td>
<td>35.6303 mL</td>
</tr>
<tr>
<td>5 mM</td>
<td>0.7126 mL</td>
<td>3.5630 mL</td>
<td>7.1261 mL</td>
</tr>
<tr>
<td>10 mM</td>
<td>0.3563 mL</td>
<td>1.7815 mL</td>
<td>3.5630 mL</td>
</tr>
</tbody>
</table>

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

BIOLOGICAL ACTIVITY

Description
FG-2216 is a potent HIF-prolyl hydroxylase inhibitor with IC50 of 3.9 uM for PDH2 enzyme; orally bioavailable and induced significant and reversible Epo induction in vivo. IC50 value: 3.9 uM [1]
Target: PDH inhibitor
FG-2216 was orally bioavailable and induced significant and reversible Epo induction in vivo (82- to 309-fold at 60 mg/kg). Chronic oral dosing in male rhesus macaques was well tolerated, significantly increased erythropoiesis, and prevented anemia induced by weekly phlebotomy. Furthermore, modest increases in HbF-containing red cells and reticulocytes were demonstrated by flow cytometry, though significant increases in HbF were not demonstrated by high-pressure liquid chromatography (HPLC) [2].

REFERENCES