AZD-0284

Cat. No.: HY-120384
CAS No.: 2101291-07-8
Molecular Formula: C₂₁H₁₈F₆N₂O₅S
Molecular Weight: 524.43
Target: ROR
Pathway: Metabolic Enzyme/Protease
Storage: 4°C, stored under nitrogen
* In solvent : -80°C, 6 months; -20°C, 1 month (stored under nitrogen)

SOLVENT & SOLUBILITY

In Vitro
DMSO : 100 mg/mL (190.68 mM; Need ultrasonic)

Preparation of Stock Solutions

<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>1.9068 mL</td>
<td>9.5342 mL</td>
<td>19.0683 mL</td>
</tr>
<tr>
<td>5 mM</td>
<td>0.3814 mL</td>
<td>1.9068 mL</td>
<td>3.8137 mL</td>
</tr>
<tr>
<td>10 mM</td>
<td>0.1907 mL</td>
<td>0.9534 mL</td>
<td>1.9068 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: ≥ 0.83 mg/mL (1.58 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 0.83 mg/mL (1.58 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 0.83 mg/mL (1.58 mM); Clear solution

BIOLOGICAL ACTIVITY

Description
AZD-0284 is a selective inverse agonist of the nuclear receptor RORγ. AZD-0284 has the potential for plaque psoriasis vulgaris and respiratory tract disorders treatment[1].

IC₅₀ & Target
pIC50: 7.4 (FRET RORγ)[1]

In Vitro
AZD0284 (0.37 μM; 5 days) inhibits IL-17A production in human T H17 cells[1]. AZD0284 reduces polarization of T H17 into pathogenic T H17/1 cells. AZD0284 decreases frequency of single IL-17+ cell as well as double positive T H17/1 cells. AZD0284 reduces IL-17A secretion and RNA expression of IL-17A, IL-17F, IL-22 and IL-23R[1][2].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES


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

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