Trifarotene

Cat. No.: HY-100256
CAS No.: 895542-09-3
Molecular Formula: C₂₉H₃₃NO₄
Molecular Weight: 459.58
Target: RAR/RXR; Autophagy
Pathway: Metabolic Enzyme/Protease; Autophagy
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: 250 mg/mL (543.97 mM; Need ultrasonic)

<table>
<thead>
<tr>
<th>Solvent Concentration</th>
<th>Mass</th>
<th>1 mg</th>
<th>5 mg</th>
<th>10 mg</th>
</tr>
</thead>
<tbody>
<tr>
<td>Preparing Stock Sols</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 mM</td>
<td>2.1759 mL</td>
<td>10.8759 mL</td>
<td>21.7590 mL</td>
<td></td>
</tr>
<tr>
<td>5 mM</td>
<td>0.4352 mL</td>
<td>2.1759 mL</td>
<td>4.3518 mL</td>
<td></td>
</tr>
<tr>
<td>10 mM</td>
<td>0.2176 mL</td>
<td>1.0879 mL</td>
<td>2.1759 mL</td>
<td></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: ≥ 2.08 mg/mL (4.53 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.08 mg/mL (4.53 mM); Clear solution

BIOLOGICAL ACTIVITY

Description
Trifarotene (CD5789) is a retinoic acid receptor (RAR) agonist with $K_{d}^{app}$ of 2, 15 and 500 nM for RARγ, RARβ and RARα, respectively.

IC₅₀ & Target
$K_{d}^{app}$: 2 nM (RARγ), 15 nM (RARβ), 500 nM (RARα)[1]

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