E-7386

Cat. No.: HY-111386
CAS No.: 1799824-08-0
Molecular Formula: C₃₉H₄₈FN₉O₄
Molecular Weight: 725.85
Target: Epigenetic Reader Domain
Pathway: Epigenetics
Storage: Powder -20°C 3 years
        4°C 2 years
        In solvent -80°C 6 months
        -20°C 1 month

SOLVENT & SOLUBILITY

In Vitro
Methanol : 250 mg/mL (344.42 mM; Need ultrasonic)
DMSO : 125 mg/mL (172.21 mM; Need ultrasonic)

Preparing Stock Solutions

<table>
<thead>
<tr>
<th>Preparing</th>
<th>Solvent</th>
<th>Mass Concentration</th>
<th>1 mg</th>
<th>5 mg</th>
<th>10 mg</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stock</td>
<td></td>
<td>1 mM</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>1.3777 mL</td>
<td>6.8885 mL</td>
<td>13.7770 mL</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>5 mM</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>0.2755 mL</td>
<td>1.3777 mL</td>
<td>2.7554 mL</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>10 mM</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>0.1378 mL</td>
<td>0.6888 mL</td>
<td>1.3777 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 (2.87 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.08 mg/mL (2.87 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.08 mg/mL (2.87 mM); Clear solution

BIOLOGICAL ACTIVITY

Description
E-7386 is an orally active CBP/beta-catenin modulator.

IC₅₀ & Target
CBP/beta-catenin[1]

In Vivo
E-7386 is an orally active CBP/beta-catenin modulator which can induce T cells infiltration into tumor and enhance
antitumor activity of anti-PD-1 mAb in Wnt1 tumor syngeneic mice model. E-7386 shows significant antitumor activity in Wnt1 model. Infiltration of T cells is limited in vehicle control group, but T cell infiltration into tumors is clearly observed in E-7386 treatment group[1].

### PROTOCOL

**Animal Administration** [1]

The mice are treated with E-7386 (50 mg/kg, orally, BID) for three weeks. Tumor diameters are measured with digital calipers, and the tumor volume in mm³ is calculated. Immunohistochemical (IHC) analysis is evaluated for tumor-infiltrating T cells[1].

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.

Tel: 609-228-6898       Fax: 609-228-5909       E-mail: tech@MedChemExpress.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA