CH7057288

**Product Data Sheet**

**Cat. No.:** HY-107362  
**CAS No.:** 2095616-82-1  
**Molecular Formula:** C₃₂H₃₁N₃O₅S  
**Molecular Weight:** 569.67  
**Target:** Trk Receptor  
**Pathway:** Neuronal Signaling; Protein Tyrosine Kinase/RTK  
**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: ≥ 34 mg/mL (59.68 mM)  
H₂O: < 0.1 mg/mL (insoluble)  
* "≥" means soluble, but saturation unknown.

<table>
<thead>
<tr>
<th>Preparing Stock Solutions</th>
<th>Solvent Concentration</th>
<th>Mass (mg)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1 mM</td>
<td>1.7554 mL</td>
</tr>
<tr>
<td></td>
<td>5 mM</td>
<td>0.3511 mL</td>
</tr>
<tr>
<td></td>
<td>10 mM</td>
<td>0.1755 mL</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Preparing Stock Solutions</th>
<th>Mass (mg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 mg</td>
<td>1.7554 mL</td>
</tr>
<tr>
<td>5 mg</td>
<td>8.7770 mL</td>
</tr>
<tr>
<td>10 mg</td>
<td>17.5540 mL</td>
</tr>
</tbody>
</table>

Preparing Stock Solutions  
- 10 mM: 0.1755 mL  
- 5 mM: 1.7554 mL  
- 1 mM: 8.7770 mL  

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: ≥ 2.75 mg/mL (4.83 mM); Clear solution

**BIOLOGICAL ACTIVITY**

**Description**  
CH7057288 is a potent and selective TRK inhibitor.

**IC₅₀ & Target**  
TRK

**In Vitro**  
CH7057288 induces regression of intracranial tumors and greatly improves event-free survival in an intracranial implantation model mimicking brain metastasis. CH7057288 can be a promising therapeutic agent for TRK fusion-positive cancer. TRK receptor tyrosine kinases are expressed as fusion proteins encoded by various fusion genes across a wide variety of cancer types, including lung and colorectal cancer[^1].

[^1]: www.MedChemExpress.com
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