Parsaclisib

Cat. No.: HY-109068  
CAS No.: 1426698-88-5  
Molecular Formula: C₂₀H₂₂ClFN₆O₂  
Molecular Weight: 432.88  
Target: PI3K  
Pathway: PI3K/Akt/mTOR  
Storage: Powder  
-20°C  3 years  
4°C  2 years  
In solvent  
-80°C  6 months  
-20°C  1 month

SOLVENT & SOLUBILITY

<table>
<thead>
<tr>
<th></th>
<th>DMSO : 125 mg/mL (288.76 mM; Need ultrasonic)</th>
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<tbody>
<tr>
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<td>Preparing Stock Solutions</td>
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<tr>
<td></td>
<td>Solvent Concentration</td>
</tr>
<tr>
<td></td>
<td>1 mM</td>
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<tr>
<td></td>
<td>5 mM</td>
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<tr>
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<td>10 mM</td>
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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 (4.81 mM); Clear solution

2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
Solubility: ≥ 2.08 mg/mL (4.81 mM); Clear solution

3. Add each solvent one by one: 10% DMSO >> 90% corn oil  
Solubility: ≥ 2.08 mg/mL (4.81 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Parsaclisib is a potent and selective PI3Kδ inhibitor, with an IC₅₀ of 1 nM at 1 mM ATP, and shows appr 20,000-fold selectivity for PI3Kα, PI3Kβ, PI3Kγ and 57 other kinases.

IC₅₀ & Target

IC₅₀: 1 nM (PI3Kδ, 1 mM ATP)[1]

In Vitro

Parsaclisib (INCB050465) is a potent and selective PI3Kδ with an IC₅₀ of 1 nM at 1 mM ATP, and shows appr 20,000-
fold selectivity for PI3Kα, PI3Kβ, PI3Kγ and 57 other kinases. Parsaclisib displays significant activity with IC\textsubscript{50} values ranging from 0.2 to 2 nM in B and T cell proliferation assays. Parsaclisib inhibits proliferation of several DLBCL and MCL cell lines in vitro (EC\textsubscript{50} < 10 nM)\textsuperscript{[1]}. 

REFERENCES