MLN 2480

Cat. No.: HY-15246
CAS No.: 1096708-71-2
Molecular Formula: C₁₇H₁₂Cl₂F₃N₇O₂S
Molecular Weight: 506.29
Target: Raf
Pathway: MAPK/ERK Pathway
Storage: Powder -20°C 3 years
         4°C 2 years
         In solvent -80°C 6 months
         -20°C 1 month

Solvent & Solubility

In Vitro

10 mM in DMSO

Preparing 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>1.9752 mL</td>
<td>9.8758 mL</td>
<td>19.7515 mL</td>
</tr>
<tr>
<td>5 mM</td>
<td>0.3950 mL</td>
<td>1.9752 mL</td>
<td>3.9503 mL</td>
</tr>
<tr>
<td>10 mM</td>
<td>0.1975 mL</td>
<td>0.9876 mL</td>
<td>1.9752 mL</td>
</tr>
</tbody>
</table>

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

MLN 2480 is an orally active and selective inhibitor of pan-Raf kinase.

IC₅₀ & Target

RAF

In Vitro

MLN2480 has effect on reversing feedback activation of MEK in response to TAK-733, leading to more concerted MAPK pathway inhibition[1].

In Vivo

MLN2480 inhibits MAPK pathway signaling in BRAF mutant and some RAS mutant preclinical cancer models at concentrations that are tolerated in vivo. MLN2480 is most potent in BRAF mutant melanoma models but also has single agent activity in some RAS mutant models. The combination of MLN2480 with TAK-733 inhibits the growth of a broader range of RAS mutant tumor models than single agent MLN2480, including primary human tumor xenograft models of melanoma and CRC[1].
CUSTOMER VALIDATION

- Technical University of Munich. 24.01.2018.

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REFERENCES

[1]. Elizabeth Grace Carideo Cunniff, et al. Abstract C146: Combination treatment with the investigational RAF kinase inhibitor MLN2480 and the investigational MEK kinase inhibitor TAK-733 inhibits the growth of BRAF mutant and RAS mutant preclinical models of

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

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