BAY-1895344 hydrochloride

Cat. No.: HY-101566A
Molecular Formula: C₂₀H₂₂ClN₇O
Molecular Weight: 411.89
Target: ATM/ATR
Pathway: Cell Cycle/DNA Damage; 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

In Vitro
DMSO : 54 mg/mL (131.10 mM; Need ultrasonic and warming)

Preparing Stock Solutions

<table>
<thead>
<tr>
<th>Solvent</th>
<th>Mass</th>
<th>1 mg</th>
<th>5 mg</th>
<th>10 mg</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 mM</td>
<td>2.4278 mL</td>
<td>12.1392 mL</td>
<td>24.2783 mL</td>
<td></td>
</tr>
<tr>
<td>5 mM</td>
<td>0.4856 mL</td>
<td>2.4278 mL</td>
<td>4.8557 mL</td>
<td></td>
</tr>
<tr>
<td>10 mM</td>
<td>0.2428 mL</td>
<td>1.2139 mL</td>
<td>2.4278 mL</td>
<td></td>
</tr>
</tbody>
</table>

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

BIOLOGICAL ACTIVITY

Description
BAY-1895344 hydrochloride is a potent, orally available and selective ATR inhibitor, with IC₅₀ of 7 nM. Anti-tumor activity[1].

IC₅₀ & Target
ATR
7 nM (IC₅₀)

In Vitro
BAY-1895344 potently inhibits the proliferation of a broad spectrum of human tumor cell lines with a median IC₅₀ of 78 nM[1].
BAY-1895344 potently suppresses hydroxyurea-induced H2AX phosphorylation (IC₅₀, 36 nM)[1].

In Vivo
BAY-1895344 shows potent anti-tumor efficacy in monotherapy in a variety of xenograft models of ovarian and colorectal cancer, and causes complete tumor remission in mantle cell lymphoma models[2].

REFERENCES

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