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**

<table>
<thead>
<tr>
<th>In Vitro</th>
<th>DMSO : 54 mg/mL (131.10 mM; Need ultrasonic and warming)</th>
</tr>
</thead>
<tbody>
<tr>
<td>H₂O : 50 mg/mL (121.39 mM; Need ultrasonic)</td>
<td></td>
</tr>
</tbody>
</table>

**Preparing Stock Solutions**

<table>
<thead>
<tr>
<th>Concentration</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>
</tr>
<tr>
<td>5 mM</td>
<td>0.4856 mL</td>
<td>2.4278 mL</td>
<td>4.8557 mL</td>
</tr>
<tr>
<td>10 mM</td>
<td>0.2428 mL</td>
<td>1.2139 mL</td>
<td>2.4278 mL</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
