Obatoclax mesylate (GX15-070)

**Product Data Sheet**

**Cat. No.:** A4194  
**CAS No.:** 803712-79-0  
**Formula:** C20H19N3O-CH4O3S  
**M.Wt:** 413.5  
**Synonyms:**  
**Target:** Apoptosis  
**Pathway:** Bcl-2 Family  
**Storage:** Store at -20°C

### Solvent & Solubility

<table>
<thead>
<tr>
<th>Solvent</th>
<th>Mass 1mg</th>
<th>Mass 5mg</th>
<th>Mass 10mg</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Preparation</strong></td>
<td><strong>Concentration</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>In Vitro Stock Solutions</td>
<td>1 mM</td>
<td>2.4184 mL</td>
<td>12.0919 mL</td>
</tr>
<tr>
<td></td>
<td>5 mM</td>
<td>0.4837 mL</td>
<td>2.4184 mL</td>
</tr>
<tr>
<td></td>
<td>10 mM</td>
<td>0.2418 mL</td>
<td>1.2092 mL</td>
</tr>
</tbody>
</table>

≥20.7 mg/mL in DMSO, ≥3.15 mg/mL in EtOH with ultrasonic and warming, insoluble in H2O

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

### Biological Activity

**Shortsummary**  
Potent Bcl-2 inhibitor

**IC50 & Target**  
0.22 μM (Ki) (Bcl-2)

**Cell Viability Assay**

**Cell Line:** UMSCC-22A cells stably expressing GFP-LC3

**Preparation method:** The solubility of this compound in DMSO is ≥10 mM. General tips for obtaining a higher concentration: Please warm the tube at 37 °C for 10 minutes and/or shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

**Reacting conditions:** 200 nM, 48 hours

**Applications:** After the treatment, cells were fixed in 4% paraformaldehyde and then stained
Intraperitoneal in Beige
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Obatoclax (3.0 mg/kg) had little effect on tumor growth while carfilzomib (2.0 mg/kg) by itself significantly reduced tumor size. Combined treatment resulted in minimal tumor growth, an effect significantly greater than that observed with either agent alone. IVIS imaging of luciferase-expressing tumor cells confirmed the marked reduction in tumor growth with combined therapy. Kaplan-Meier analysis also demonstrated that that carfilzomib significantly increased the survival of obatoclax-treated mice.

Other notes: Please test the solubility of all compounds indoor, and the actual solubility may slightly differ with the theoretical value. This is caused by an experimental system error and it is normal.

Product Citations


References


Caution

FOR RESEARCH PURPOSES ONLY.
NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

Specific storage and handling information for each product is indicated on the product datasheet. Most APEX BIO products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Shortterm storage of many products are stable in the short-term at temperatures that differ from that required for...
long-term storage. We ensure that the product is shipped under conditions that will maintain the quality of the reagents. Upon receipt of the product, follow the storage recommendations on the product data sheet.