**Product Name**: Gambogic Acid  
**Catalog Number**: T6185  
**CAS Number**: 2752-65-0  
**Molecular Formula**: C38H44O8  
**Molecular Weight**: 628.75

**Description**: Gambogic Acid (EC50 = 0.78-1.64 uM) activates caspases. Gambogic Acid competitively suppresses Bcl-XL, Bcl-2, Bcl-W, Bcl-B, Bfl-1 and Mcl-1. The IC50s of Gambogic Acid for Bcl-XL, Bcl-2, Bcl-W, Bcl-B, Bfl-1 and Mcl-1 are 1.47, 1.21, 2.02, 0.66, 1.06 and 0.79 uM, respectively.

**Storage**: 2 years -80°C in solvent; 3 years -20°C powder;

| Solubility | DMSO | 47.2 mg/mL (75 mM)  
|------------|------|---------------------  
| Ethanol    | 62.9 mg/mL (100 mM)  
( < 1 mg/ml refers to the product slightly soluble or insoluble )

**Receptor (IC50)**

<table>
<thead>
<tr>
<th>Receptor</th>
<th>IC50</th>
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</thead>
<tbody>
<tr>
<td>Bcl-2</td>
<td>1.21μM</td>
</tr>
<tr>
<td>Bcl-B</td>
<td>0.66μM</td>
</tr>
<tr>
<td>Bcl-w</td>
<td>0.02μM</td>
</tr>
<tr>
<td>Bfl-1</td>
<td>1.06μM</td>
</tr>
<tr>
<td>Mcl-1</td>
<td>0.79μM</td>
</tr>
</tbody>
</table>

**In vitro Activity**

Gambogic Acid is a caged xanthone that is derived from Garcinia hanburyi and functions as a strong apoptotic inducer in many types of cancer cells by inhibiting human Bcl-2 family proteins and activating caspases. Gambogic Acid also blocks Kir2.1 channels with EC50 of ≤ 100 nM. [1] [2] [3] Gambogic Acid significantly inhibits human umbilical vein endothelial cell (HUVEC) proliferation, migration, invasion, tube formation, and micro-vessel growth at nM concentration. [4]

**In vivo Activity**


**Reference**


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