**U 46619**

**Cat. No.:** B6890  
**CAS No.:** 50985-40-1  
**Formula:** C21H34O4  
**M.Wt:** 350.5  
**Synonyms:**  
**Target:** GPCR/G protein  
**Pathway:** Prostanoid Receptors  
**Storage:** Store at -20°C

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### Solvent & Solubility

≥100 mg/mL in DMSO, ≥100 mg/mL in Ethanol, ≥100 mg/mL in DMF, ≥2 mg/mL in PBS pH 7.2

<table>
<thead>
<tr>
<th>Preparing Stock Solutions</th>
<th>Concentration</th>
<th>Mass (1mg)</th>
<th>Mass (5mg)</th>
<th>Mass (10mg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 mM</td>
<td>2.8531 mL</td>
<td>14.2653 mL</td>
<td>28.5307 mL</td>
<td></td>
</tr>
<tr>
<td>5 mM</td>
<td>0.5706 mL</td>
<td>2.8531 mL</td>
<td>5.7061 mL</td>
<td></td>
</tr>
<tr>
<td>10 mM</td>
<td>0.2853 mL</td>
<td>1.4265 mL</td>
<td>2.8531 mL</td>
<td></td>
</tr>
</tbody>
</table>

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

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### Biological Activity

**Short summary:** selective agonist of prostaglandin H2 (PGH2)/thromboxane A2 (TxA2) (TP) receptor

**IC50 & Target**

**Cell Viability Assay**

<table>
<thead>
<tr>
<th>Cell Line:</th>
<th>Human platelet</th>
</tr>
</thead>
</table>

| Preparation method: | Soluble in methyl acetate (supplied pre-dissolved -10 mg/mL). 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: | 24 h |
| Applications: | In human platelet, U 46619 induced serotonin release, platelet aggregation, |
and fibrinogen receptor with the EC50 values of 0.54 ± 0.13, 1.31 ± 0.34 and 0.53 ± 0.21 μM, respectively.

Animal experiment

| Animal models: | Conscious spontaneously hypertensive rats (SHR) |
| Dosage form: | Intracerebroventricular (ICV) administration, 1–100 nmol/kg |
| Applications: | In conscious spontaneously hypertensive rats (SHR), U-46619 (1–100 nmol/kg i.c.v.) induced a strong dose-related increase in blood pressure but had no significant effect on heart rate. In conscious norotensive rats (NR) neither blood pressure nor heart rate was significantly affected. Furthermore, U-46619 (0.1–100 nmol/kg, i.c.v.) had no significant effect on blood pressure, heart rate or ventilation in urethane-anaesthetised NR. |

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.