Product Name: Bazedoxifene acetate

Chemical Properties

- **Product Name:** Bazedoxifene acetate
- **Cas No.:** 198481-33-3
- **M.Wt:** 530.65
- **Formula:** C32H38N2O5
- **Synonyms:** Viviant, WAY-140424, WAY-TES 424, Conbriza, TSE-424,
- **Chemical Name:** acetic acid;1-[[4-[2-(azepan-1-yl)ethoxy]phenyl]methyl]-2-(4-hydroxyphenyl)-3-methylindol-5-ol
- **Canonical SMILES:** CC1=C(N(C2=C1C=C(C=C2)O)CC3=CC=C(C=C3)OCCN4CCCCCC4)C5=C=C(C=C5)O.CC(=O)O
- **Solubility:** ≥182mg/mL in DMSO
- **Storage:** Store at -20°C
- **General tips:** For obtaining a higher solubility, please warm the tube at 37°C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.
- **Shopping Condition:** Evaluation sample solution: ship with blue ice
  All other available size: ship with RT, or blue ice upon request

Biological Activity

- **Targets:** Endocrinology and Hormones
- **Pathways:** Estrogen/progestogen Receptor

**Description:**

Bazedoxifene, a novel selective estrogen receptor modulator (SERM), has been developed to have favorable effects on bone and the lipid profile while minimizing stimulation of uterine or breast tissues. Two large Phase III clinical trials showed that Bazedoxifene, as well as raloxifene,
increased bone mineral density, decreased levels of bone turnover markers, and significantly reduced the risk of new vertebral fractures in postmenopausal women compared with placebo.

Reference:

Protocol

Cell experiment:

<table>
<thead>
<tr>
<th>Cell lines</th>
<th>MCF-7 human mammary carcinoma cells</th>
</tr>
</thead>
<tbody>
<tr>
<td>Preparation method</td>
<td>Soluble in DMSO &gt; 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.</td>
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<tr>
<td>Reacting conditions</td>
<td>Bazedoxifene acetate down-regulates ERα protein in MCF-7:5C and MCF-7:2A Cells. It also inhibits ERα transcriptional activity, blocks cell cycle progression in MCF-7:5C cells and down-regulates cyclin D1.</td>
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</table>

Animal experiment [3]:

<table>
<thead>
<tr>
<th>Animal models</th>
<th>Sprague Dawley rats</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dosage form</td>
<td>0.1, 0.3, 1.0, and 3.0 mg/kg per day for 6 weeks</td>
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<tr>
<td>Applications</td>
<td>Dose response data for Bazedoxifene acetate demonstrate consistent, significant increased bone mass, compared with control animals via pQCT evaluation is achieved at 0.1 mg/kg per day with increases at 0.3, 1.0, and 3.0 mg/kg per day.</td>
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<tr>
<td>Other notes</td>
<td>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.</td>
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</tbody>
</table>

Reference:

1. Lewis-Wambi JS, Kim H, Curpan R, Grigg R, Sarker MA, Jordan VC. The selective estrogen receptor modulator bazedoxifene inhibits hormone-independent breast cancer cell growth and

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 ApexBio products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Short term 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.