

Product Name: Bazedoxifene acetate

Revision Date: 01/10/2020

## **Product Data Sheet**

# Bazedoxifene acetate

Cat. No.: A3233

CAS No.: 198481-33-3 Formula: C32H38N2O5

**M.Wt:** 530.65

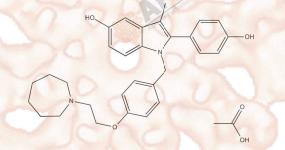
Synonyms: Viviant, WAY-140424, WAY-TES 424,

Conbriza, TSE-424,

Target: Endocrinology and Hormones

Pathway: Estrogen/progestogen Receptor

Storage: Store at -20°C



# Solvent & Solubility

In Vitro

≥182 mg/mL in DMSO, ≥8.483 mg/mL in EtOH with ultrasonic and warming, insoluble in H2O

| Preparing Stock Solutions | Solvent Concentration | 1mg       | 5mg                      | 10mg       |
|---------------------------|-----------------------|-----------|--------------------------|------------|
|                           | 1 mM                  | 1.8845 mL | 9.4224 mL                | 18.8448 mL |
|                           | 5 mM                  | 0.3769 mL | 1.8845 mL                | 3.7690 mL  |
|                           | 10 mM                 | 0.1884 mL | 0.9 <mark>4</mark> 22 mL | 1.8845 mL  |

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

# **Biological Activity**

| Shortsummary              | Estrogen receptor modulator |  |  |
|---------------------------|-----------------------------|--|--|
| IC <sub>50</sub> & Target |                             | 200  |  |
|                           | Cell Viability Assay        |  |  |
|                           | Cell Line:                  | MCF-7 human mammary carcinoma cells  |  |
|                           | Preparation method:         | Soluble in DMSO > 10 mM. General tips for obtaining a higher concentration:    |  |
| In Vitro                  |                             | 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:        | 10-8 to 10-6 M Bazedoxifene acetate for 24 hours.                              |  |
|                           | Applications:               | 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.                                    |  |  |  |  |
| In Vivo | Animal experiment   | Animal experiment  |  |  |  |  |
|         | Animal models:      | Sprague Dawley rats  |  |  |  |  |
|         | Dosage form:        | 0.1, 0.3, 1.0, and 3.0 mg/kg per day for 6 weeks   |  |  |  |  |
|         | Applications:       | Dose response data for Bazedoxifene acetate demonstrate consistent,                            |  |  |  |  |
|         | P Land Clare of     | 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. |  |  |  |  |
|         | Preparation method: | Bazedoxifene was administered orally in a saline, Tween-80, methylcellulose                    |  |  |  |  |
|         |                     | vehicle.   |  |  |  |  |
|         | 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.   |  |  |  |  |

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### **Product Citations**

See more customer validations on www.apexbt.com.

### References

- 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 down-regulates estrogen receptor α and cyclin D1. Mol Pharmacol. 2011 Oct;80(4):610-20.
- 2. Komm BS, Kharode YP, Bodine PV, Harris HA, Miller CP, Lyttle CR. Bazedoxifene acetate: a selective estrogen receptor modulator with improved selectivity. Endocrinology. 2005 Sep;146(9):3999-4008.

### 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 APExBIO 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.

## **APExBIO Technology**

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