

## Ezatiostat TFA

## Chemical Properties

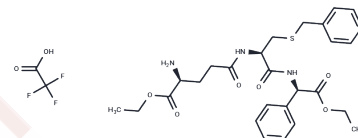
CAS No. :

Formula: C<sub>29</sub>H<sub>36</sub>F<sub>3</sub>N<sub>3</sub>O<sub>8</sub>S

Molecular Weight: 643.67

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



## Biological Description

|               |                                                                                                                                                                                                                                       |
|---------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description   | Ezatiostat TFA (TLK199) is a liposomal small-molecule glutathione analog inhibitor of glutathione S-transferase (GST) P1-1 with hematopoiesis-stimulating activity.                                                                   |
| Targets(IC50) | GST                                                                                                                                                                                                                                   |
| In vitro      | Ezatiostat is a tripeptide analog of glutathione that can selectively inhibit GSTP1-1 catalytic activity (K <sub>i</sub> = 400 nM) with minimal effect on the related GSTα and -μ families (K <sub>i</sub> s range from 20-75 μM)[1]. |

## Solubility Information

|            |                                                                                                                         |
|------------|-------------------------------------------------------------------------------------------------------------------------|
| Solubility | DMSO: 25 mg/mL (38.84 mM),Sonication is recommended.<br>(< 1 mg/ml refers to the product slightly soluble or insoluble) |
|------------|-------------------------------------------------------------------------------------------------------------------------|

## Preparing Stock Solutions

|       | 1mg       | 5mg       | 10mg       |
|-------|-----------|-----------|------------|
| 1 mM  | 1.5536 mL | 7.768 mL  | 15.5359 mL |
| 5 mM  | 0.3107 mL | 1.5536 mL | 3.1072 mL  |
| 10 mM | 0.1554 mL | 0.7768 mL | 1.5536 mL  |
| 50 mM | 0.0311 mL | 0.1554 mL | 0.3107 mL  |

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

### Reference

Ruscoe J E , Rosario L A , Wang T , et al. Pharmacologic or Genetic Manipulation of Glutathione S-Transferase P1-1 (GST $\pi$ ) Influences Cell Proliferation Pathways[J]. Journal of Pharmacology and Experimental Therapeutics, 2001, 298(1):339-345.

Galili N , Tamayo P , Botvinnik O B , et al. Prediction of response to therapy with ezatiostat in lower risk myelodysplastic syndrome[J]. Journal of Hematology & Oncology, 2012, 5(1):20.

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