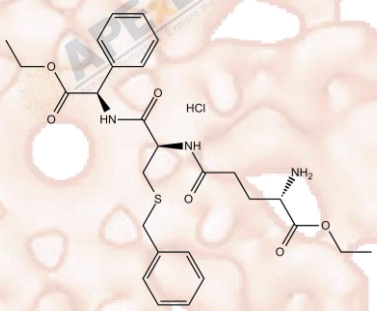
Product Data Sheet

Ezatiostat hydrochloride



Cat. No.:	B1250
CAS No.:	286942-97-0
Formula:	C27H36ClN3O6S
M.Wt:	566.11
Synonyms:	
Target:	Others
Pathway:	Gutathione S-transferase
Storage:	Store at -20°C

Solvent & Solubility

In Vitro

⩾28.3 mg/mL in DMSO; ⩾3.32 mg/mL in H2O with ultrasonic; ⩾3.4 mg/mL in EtOH with ultrasonic

Preparing Stock Solutions

Mass / Solvent / Concentration	1mg	5mg	10mg
1 mM	1.7664 mL	8.8322 mL	17.6644 mL
5 mM	0.3533 mL	1.7664 mL	3.5329 mL
10 mM	0.1766 mL	0.8832 mL	1.7664 mL

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

Biological Activity

Shortsummary	GST inhibitor
IC_{50} & Target	

In Vitro

Cell Viability Assay

Cell Line:	TF-1 erythroleukemia and HL-60 promyelocytic cells
Preparation method:	The solubility of this compound in DMSO is >28.3mg/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:	40 μM, 5.5 hours

	Applications:	Treatment with TLK199 in leukemia cell lines resulted in apoptosis and increase in ROS levels. Treatment with TLK199 resulted in cleavage of PARP protein in a dose- and time-dependent manner. In HL-60 cells, TLK199 (40 μM for 5.5 hours) induced activation of caspase 3 and caspase 9. TLK199 led to loss of cell viability. In TF-1 and HL-60 cell lines, TLK199 treatment resulted in the upregulation of several genes involved in the cellular response to ER stress. TLK199 treatment upregulated genes for AP-1 transcription factors such as c-jun.
In Vivo	**Animal experiment**	
	Applications:	
	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

1. Liberti, Eileen. "An In-vitro Investigation of Glutathione Transferases in Idiopathic Pulmonary Fibrosis." George Mason University.2018.
2. Faccidomo S, Swaim KS, et al. "Mining the nucleus accumbens proteome for novel targets ofalcohol self-administration in male C57BL/6J ice."Psychopharmacology (Berl).2018 Mar 3.PMID:29502276
3. Liu X, et al. "Human glutathione S-transferase P1-1 functions as an estrogen receptor α signaling modulator." Biochem Biophys Res Commun. 2014 Sep 16. pii: S0006-291X(14)01625-8.PMID:25218501

See more customer validations on www.apexbt.com.

References

[1]. Stofega M, Hsu S C, Chew J, et al. Induction of apoptosis by TLK199 in human leukemia cells[J]. 2008.

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.

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