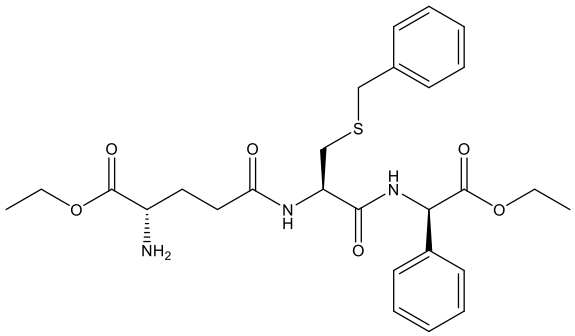
Catalog # 10-4711

Ezatiostat

CAS# 168682-53-9

Ethyl (2*S*)-2-amino-5-[[(2*R*)-3-benzylsulfanyl-1-[[(1*R*)-2-ethoxy-2-oxo-1-phenylethyl]amino]-1-oxopropan-2-yl]amino]-5-oxopentanoate; TLK199

Lot # FBS1077



Ezatiostat is a peptidomimetic inhibitor of glutathione S-transferase P1-1 (GSTP1).[1,2] It showed significant hematopoietic stimulatory activity possibly *via* JNK activation through disruption of the GSPT/JNK interaction.[3] Ezatiostat displayed efficacy in treating myelodysplastic syndrome.[4,5] Combined treatment with ezatiostat and a PRDX6 inhibitor displayed synergistic effects in the treatment of neuroblastoma in vitro and in vivo.[6]

1) Ciaccio *et al*. (1995) *Modulation of detoxification gene expression in human colon HT29 cells by glutathione-S-transferase inhibitors*; Mol. Pharmacol, **48** 639
2) Ruscoe *et al*. (2001) *Pharmacologic or genetic manipulation of glutathione S-transferase P1-1 (GSTpi) influences cell proliferation pathways*; J. Pharmacol. Exp. Ther., **298** 339
3) Adler *et al*. (1999) *Regulation of JNK signaling by GSTp*; EMBO J., **18** 1321
4) Galli *et al*. (2012) *Prediction of response to therapy with ezatiostat in lower risk myelodysplastic syndrome*; J. Hematol. Oncol., **5** 20
5) Raza *et al*. (2012) *A phase 2 randomized multicenter study of 2 extended dosing schedules of oral ezatiostat in low to intermediate-1 risk myelodysplastic syndrome*; Cancer, **118** 2138
6) Liano-Pons *et al*. (2025) *Combined targeting of PRDX6 and GSTP1 as a potential differentiation strategy for neuroblastoma treatment*; Proc. Natl. Acad. Sci. USA, **122** e2427211122

PHYSICAL DATA

Molecular Weight:	529.65
Molecular Formula:	$C_{27}H_{35}N_3O_6S$
Purity:	98% (HPLC)
	NMR: (Conforms)
Solubility:	DMSO (>25 mg/ml)
Physical Description:	White solid
Storage and Stability:	Store as supplied at -20°C for up to one year from the date of purchase. Solutions in DMSO may be stored at -20°C for up to 1 month.

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Focus Biomolecules LLC 400 Davis Drive, Suite 600 Plymouth Meeting PA 19462

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