Catalog # 10-3235

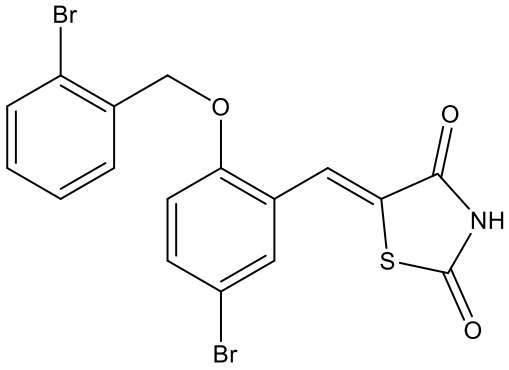
P0108

CAS# 893449-38-2

5-[[5-Bromo-2-[(2-bromophrnyl)methoxy]phenyl]methylene]-2-thioxo-4-thiazolidinone

PRL-3 inhibitor I

Lot # S104027



Potent inhibitor of phosphatase of regenerating liver-3 (PRL-3), IC_{50}=0.9 μM.[1] Reduces the invasive properties of mouse melanoma B16F10 cells in a cellular model.[2] Sensitizes PRL-3-expressing cancer cells to chemotherapeutics.[3] Inhibits dephosphorylation of tyrosine-783 of integrin β1 in BGC823 and SW480 cells.[4]

1) Ahn et al. (2006), *Synthesis and biological evaluation of rhodanine derivatives as PRL-3 inhibitors*; Bioorg. Med. Chem. Lett., **16** 2996
2) Min *et al*. (2013), *Rhodanine-based PRL-3 inhibitors blocked the migration and invasion of metastatic cancer cells*; Bioorg. Med. Chem. Lett., **23** 3769
3) Zhao *et al*. (2011), *PRL-3, a metastasis associated tyrosine phosphatase, is involved in FLT3-ITD signaling and implicated in anti-AML therapy*; PLoS One, **6(5)** e19798
4) Tian et al. (2012), *Phosphatase of regenerating liver-3 directly interacts with integrin β1 and regulates its phosphorylation at tyrosine 783*; BMC Biochemistry, **13** 22

PHYSICAL DATA

Molecular Weight:	485.21
Molecular Formula:	$C_{17}H_{11}Br_2NO_2S_2$
Purity:	98% by TLC
	NMR: (Conforms)
Solubility:	Soluble in DMSO (up to 40 mg/ml)
Physical Description:	Yellow solid
Storage and Stability:	Store as supplied desiccated at -20°C for up to 1 year from the date of purchase.
	Solutions in DMSO may be stored at -20°C for up to 2 months.

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