

Catalog # 10-3235

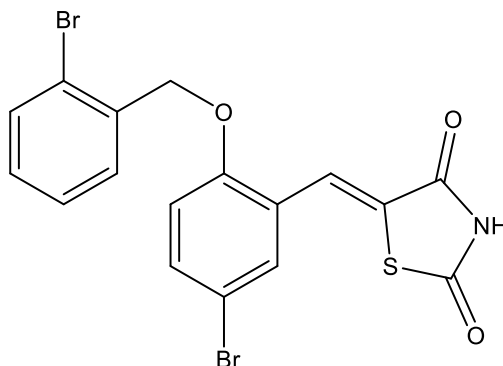
P0108

CAS# 893449-38-2

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

PRL-3 inhibitor I

Lot # S104004



Potent inhibitor of phosphatase of regenerating liver-3 (PRL-3), $IC_{50}=0.9 \mu\text{M}$.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 $\beta 1$ 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 $\beta 1$ and regulates its phosphorylation at tyrosine 783*; BMC Biochemistry, **13** 22

PHYSICAL DATA

Molecular Weight: 485.21
Molecular Formula: $\text{C}_{17}\text{H}_{11}\text{Br}_2\text{NO}_2\text{S}_2$
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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