

## Product Data Sheet

Product Name: PRL-3 Inhibitor

Cat. No.: GC16900

### Chemical Properties

Cas. No. 893449-38-2

Chemical Name 5-[[5-bromo-2-[(2-bromophenyl)methoxy]phenyl]methylene]-2-thioxo-4-thiazolidinone

SMILES BrC1=CC=C(OCC2=C(Br)C=CC=C2)C(/C=C3C(NC(S\3)=S)=O)=C1

Formula  $C_{17}H_{11}Br_2NO_2S_2$

M.Wt 485.2

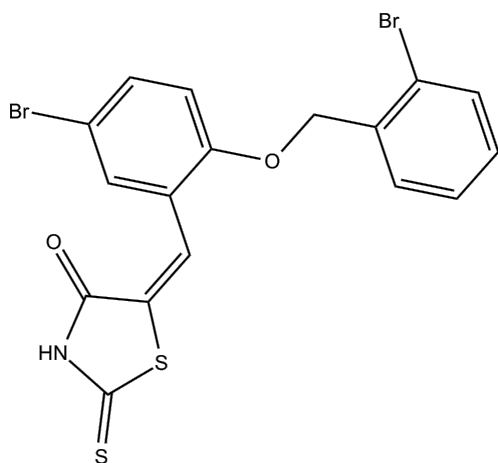
Solubility  $\leq 16\text{mg/ml}$  in DMSO;  $16\text{mg/ml}$  in dimethyl formamide

Storage  $4^\circ\text{C}$ , protect from light

General tips For obtaining a higher solubility, please warm the tube at  $37^\circ\text{C}$  and shake it in the ultrasonic bath for a while. Stock solution can be stored below  $-20^\circ\text{C}$  for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available size: ship with RT, or blue ice upon request.

Structure



### Protocol

#### Cell experiment [1]:

**Caution: Product has not been fully validated for medical applications. For research use only.**

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Cell lines                      B16F10 cells

Preparation Method                      A total of  $1 \times 10^5$  B16F10 cells were seeded in the upper chamber of 24-well invasion chambers with  $8\mu\text{m}$  polycarbonate filters, while the lower chamber contained conditioned medium from HT1080 cells as a chemoattractant. The cells were incubated for 22h at  $37^\circ\text{C}$  in a humidified incubator with 5%  $\text{CO}_2$  in the presence and absence of PRL-3 Inhibitor (0, 1, 10, and  $30\mu\text{g/mL}$ ). Non-migratory cells on the upper surface of the filter were removed by wiping with a cotton swab. Migrated cells on the underside of the membrane were stained with 0.5% crystal violet after fixation with methanol and observed under a microscope.

Reaction Conditions                      0, 1, 10, and  $30\mu\text{g/mL}$ ; 22h

Applications                      PRL-3 Inhibitor (compound 5e) inhibits the invasion of mouse melanoma B16F10 cells.

### References:

[1] Ahn JH, Kim SJ, Park WS, et al. Synthesis and biological evaluation of rhodanine derivatives as PRL-3 inhibitors. Bioorg Med Chem Lett. 2006 Jun 1;16(11):2996-9.

### Background

The PRL-3 Inhibitor is an inhibitor of phosphatase of regenerating liver-3 (PRL-3) with an  $\text{IC}_{50}$  of  $0.9\mu\text{M}$ <sup>[1]</sup>.

In vitro, PRL-3 Inhibitor (compound 5e) (0, 1, 10, and  $30\mu\text{g/mL}$ ; 22h) inhibits the invasion of mouse melanoma B16F10 cells<sup>[1]</sup>.

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