

Product Data Sheet

Product Name: PTP1B-IN-9

Cat. No.: GC61221

Chemical Properties

Cas. No. 145888-79-5

SMILES O=C(/C(CNC/1)=C/C2=CC=C(C(Cl)C(Cl)=C2)C1=C\C3=CC(Cl)=C(C=C3)Cl

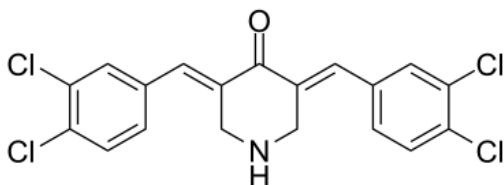
Formula $C_{19}H_{13}Cl_4NO$ M.Wt 413.12

Solubility DMSO: 5 mg/mL (12.10 mM) Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°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



Background

PTP1B-IN-9 is a ubiquitin-proteasome system (UPS)-stressor. PTP1B-IN-9 inhibits ubiquitin-mediated protein degradation upstream of the 20S proteasomal catalytic activities. PTP1B-IN-9 triggers a ubiquitin-proteasome-system (UPS)-stress response without affecting 20S proteasome catalytic activities. Anticancer activity[1].

PTP1B-IN-9 (0-30 μM; 48 hours) treatment produces a dose dependent reduction in the viability of HPV16-positive SiHa and Caski cells and HPV-39-positive ME180 cervical cancer cell lines

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

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respectively[1].PTP1B-IN-9 reduces the cell viability of exponentially growing HeLa cervical cancer cells in a dose-dependent fashion with an IC50 value of 2 μ M[1]. Cell Viability Assay[1] Cell Line: Keratinocytes, SiHa, CaSki and ME180 cells

[1]. Anchoori RK, et al. Stressing the ubiquitin-proteasome system without 20S proteolytic inhibition selectively kills cervical cancer cells.PLoS One. 2011;6(8):e23888.

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