

Product Data Sheet

Product Name: PCNA-I1
Cat. No.: GC44577

Chemical Properties

Cas. No. 444930-42-1

SMILES OC1=C(/C=N/NC(C2=C(C)C=CS2)=O)C=CC3=CC=CC=C31

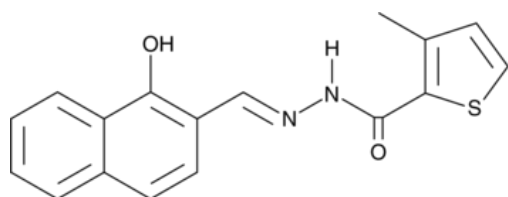
Formula C17H14N2O2S M.Wt 310.4

Solubility DMF: 10 mg/ml, DMSO: 10 mg/ml, DMSO:PBS(pH 7.2) (1:3): 0.25 mg/ml
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

PCNA-I1 is an inhibitor of proliferating cell nuclear antigen (PCNA) that binds to PCNA trimers ($K_d = 0.41 \mu\text{M}$) and dose-dependently reduces the level of PCNA associated with chromatin in PC3 cells. It preferentially inhibits growth of a variety of human and mouse cancer cell lines ($\text{IC}_{50}\text{s} = 0.05\text{--}0.3 \mu\text{M}$) over non-transformed cells ($\text{IC}_{50}\text{s} = 0.99\text{--}2 \mu\text{M}$). PCNA-I1 leads to an accumulation of cells in the G1 phase during the first 24 hours of incubation and halts the cell cycle in the S and G2/M phases by 72 hours following treatment. It also reduces tumor growth in an LNCaP prostate cancer mouse xenograft model when administered at a dose of 10 mg/kg, five days per week, for two weeks.

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

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