

Product Data Sheet

Product Name: Thienopyridone

Cat. No.: GC60364

Chemical Properties

Cas. No. 1018454-97-1

SMILES O=C1C(C=C(C2=CC=CC=C2)S3)=C3C(N)=CN1

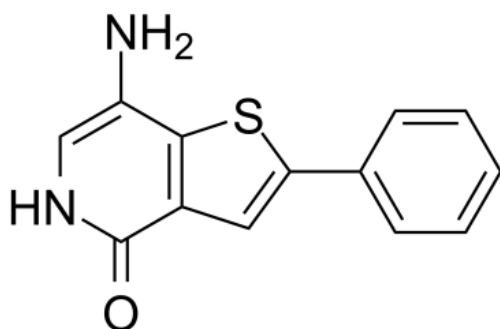
Formula $C_{13}H_{10}N_2OS$ M.Wt 242.3

Solubility Storage

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

Thienopyridone is a potent and selective phosphatase of regenerating liver (PRL) phosphatase inhibitor with IC₅₀s of 173 nM, 277 nM and 128 nM for PRL-1, PRL-2, and PRL-3, respectively. Thienopyridone shows minimal effects on other phosphatases. Thienopyridone induces p130Cas cleavage and apoptosis and has anticancer effects[1].

Thienopyridone shows significant inhibition of tumor cell anchorage-independent growth in soft agar. The EC₅₀ values of the Thienopyridone are 3.29 μM and 3.05 μM for RKO and HT-29 cells,

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respectively[1]. Thienopyridone (1-75 μ M; 24 hours; HeLa cells) treatment shows a dose-dependent down-regulation of total p130Cas in HeLa cells. Thienopyridone induces p130Cas and FAK cleavage leads to caspase-mediated cell apoptosis. Thienopyridone induces the cleavage of PARP and caspase-8[1]. Thienopyridone (3.75-30 μ M; 24 hours) significantly suppresses HUVEC migration but not proliferation[1]. Cell Viability Assay[1] Cell Line: RKO and HT-29 cells

[1]. Daouti S, et al. A selective phosphatase of regenerating liver phosphatase inhibitor suppresses tumor cell anchorage-independent growth by a novel mechanism involving p130Cas cleavage. Cancer Res. 2008 Feb 15;68(4):1162-9.

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