Product Data Sheet

Product Name: PD173074
CAS No.: 219580-11-7
Cat. No.: HY-10321
MWT: 523.67
Formula: C28H41N7O3
Purity: >98%

Solubility: DMSO ≥101mg/mL Water <1.2mg/mL
Ethanol ≥101mg/mL

Mechanisms:
Pathways: Protein Tyrosine Kinase/RTK; Target: FGFR

Biological Activity:
PD173074 is a potent FGFR1 inhibitor with IC50 of ~25 nM and also inhibits VEGFR2 with IC50 of 100-200 nM, ~1000-fold selective for FGFR1 than PDGFR and c-Src.
IC50 value: ~25 nM (FGFR1); 100-200 nM (VEGFR2) [1]
Target: FGFR1; VEGFR
in vitro: PD173074 is an ATP-competitive inhibitor of FGFR1 with Ki of ~40 nM. PD173074 is also an effective inhibitor of VEGFR2. Compared to FGFR1, PD173074 weakly inhibits the activities of Src, InsR, EGFR, PDGFR, MEK, and PKC with 1000-fold or greater IC50 values. PD173074 inhibits autophosphorylation of FGFR1 and VEGFR2 in a dose-dependent manner with IC50 of 1-5 nM and 100-200 nM, respectively [1]. PD173074 inhibits FGF-2 promotion of granule neuron survival in a dose-dependent manner with IC50 of 12 nM, exhibiting 1,000-fold greater potency than that of SU 5402 [2]. PD173074 specifically inhibits FGF-2-mediated effects on proliferation...

References:

Caution: Not fully tested. For research purposes only
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