

Product Data Sheet

Product Name: PD 089828

Cat. No.: GC44583

Chemical Properties

Cas. No. 179343-17-0

SMILES NC(N=C1)=NC(C1=C2)=NC(NC(NC(C)(C)C)=O)=C2C3=C(Cl)C=CC=C3Cl

Formula C₁₈H₁₈Cl₂N₆O

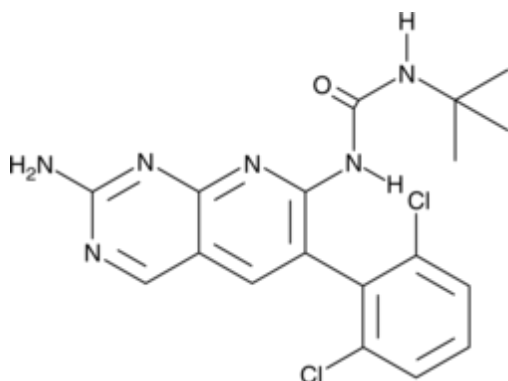
M.Wt 405.3

Solubility DMSO: 25 mg/ml, Ethanol: 1 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

PD 089828 is a competitive inhibitor of the receptor tyrosine kinases FGFR1, PDGFR β , and EGFR (IC₅₀s = 0.15, 1.76, and 5.47 μ M, respectively) and a noncompetitive inhibitor of the nonreceptor tyrosine kinase c-Src (IC₅₀ = 0.18 μ M). It is selective for these targets over insulin receptor tyrosine kinase, PKC, and CDK4 (IC₅₀s = >50 μ M) but does inhibit MAPK (IC₅₀ = 7.1 μ M). PD 089828 decreases PDGF-BB-, EGF-, and bFGF-induced phosphorylation of PDGFR, EGFR, and FGFR1, respectively, in a concentration-dependent manner in vitro. It also decreases serum-stimulated growth (IC₅₀ = 1.8 μ M after 8 days) and migration (IC₅₀ = 4.5 μ M) of rat aortic smooth muscle cells.

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

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