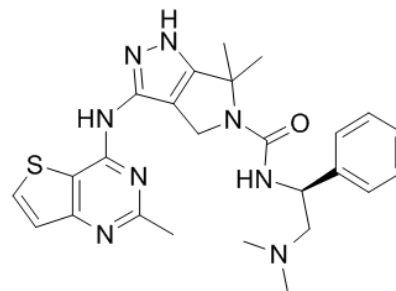


Product Name : PF-3758309
Cat. No. : PC-43316
CAS No. : 898044-15-0
Molecular Formula : C₂₅H₃₀N₈OS
Molecular Weight : 490.6237
Target : p21-activated Kinase (PAK)
Solubility : 10 mM in DMSO



Biological Activity

PF-3758309 (PF03758309) is a potent, ATP-competitive p21-activated kinase (**PAK**) inhibitor with K_i of 18.7 nM, shows similar enzymatic potency against other group B PAKs (PAK5 K_i =18.1 nM, PAK6 K_i =17.1 nM) and group A PAK1 (K_i =13.7 nM), less active against PAK2 and PAK3 (IC_{50} =190 nM and 99 nM).

PF-3758309 inhibits phosphorylation of the PAK4 substrate GEF-H1 (IC_{50} =1.3 nM) and anchorage-independent growth of a panel of tumor cell lines (IC_{50} =4.7 nM).

PF-3758309 inhibits PAK4-dependent pathways in proteomic studies and regulates functional activities related to cell proliferation and survival; blocks the growth of multiple human tumor xenografts.

References

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Chow HY, et al. *Cancer Res*. 2012 Nov 15;72(22):5966-75.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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