

PF-562271

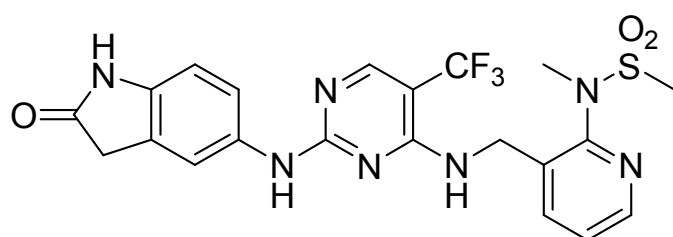
SYN-1064

N-Methyl-N-[3-[[[2-[(2-oxo-2,3-dihydro-1H-indol-5-yl)amino]-5-trifluoromethylpyrimidin-4-yl]amino]methyl]pyridin-2-yl]methanesulfonamide

CAS Registry No.: 717907-75-0

Smiles String:

CN(c1c(cccn1)CNc2c(cnc(n2)Nc3ccc4c(c3)CC(=O)N4)C(F)(F)F)S(=O)(=O)C



Molecular Weight: 507.49

Molecular Formula: C₂₁H₂₀F₃N₇O₃S

Lot Number: Refer to vial

¹H-NMR: Available on request

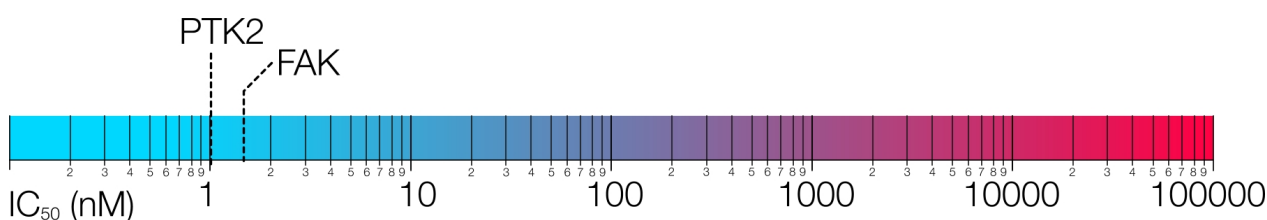
HPLC (Purity): > 95.0% @ 254 nm

ES-MS: Available on request

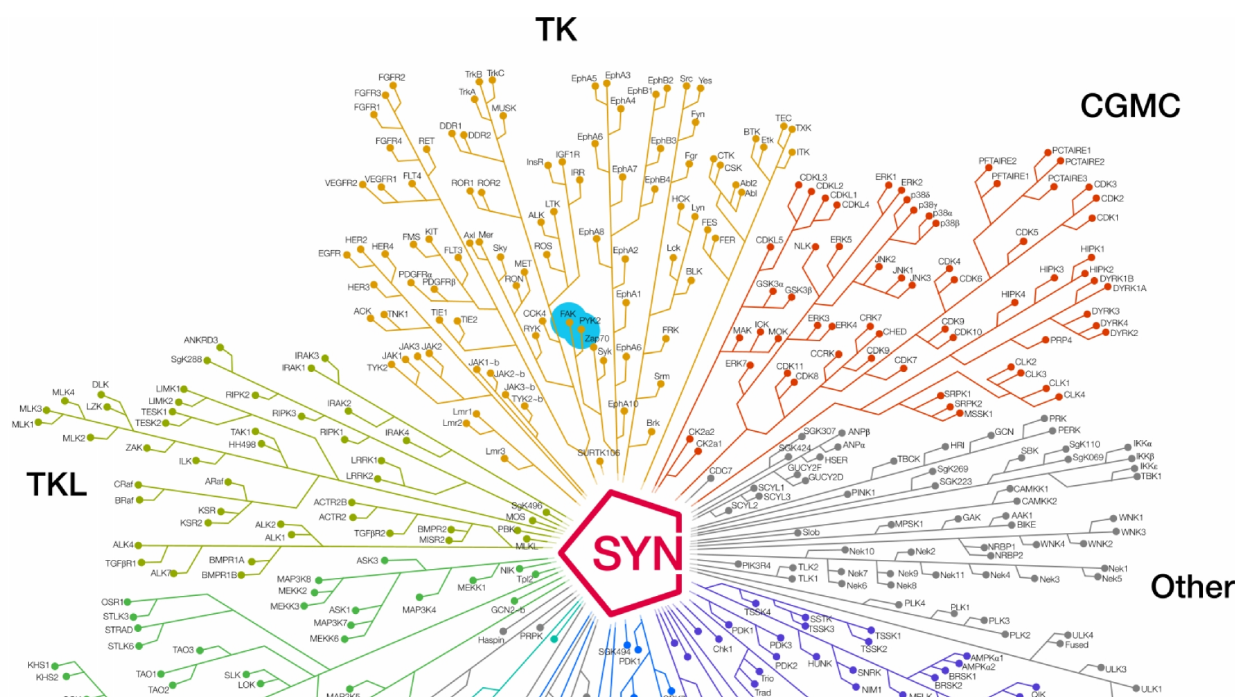
Description:

PF-562271 is a potent, ATP-competitive, reversible inhibitor of FAK and Pyk2 catalytic activity with an IC₅₀ of 1.5 and 14 nmol/L, respectively (PMID 18339875). In addition, PF-562,271. PF-562,271 displayed robust inhibition in an inducible cell-based assay measuring phospho-FAK with an IC₅₀ of 5 nmol/L. PF-562,271 was evaluated against multiple kinases and displays >100x selectivity against a long list of non-target kinases. In tests, PF-562271 inhibits FAK phosphorylation in vivo in a dose-dependent fashion with a calculated EC₅₀ of 93 ng/mL using injections.

Biological Activity



Kinome Mapping



Shipping and Storage Temperature

Shipping:
Ambient

Storage:
2 years -20C, Powder 1 month, -4C in DMSO, More than one month -80C in DMSO

Solubility

DMSO 101mg/mL, Ethanol 1mg/mL

Preparing Stock Solutions

Stock Solution (1ml DMSO)	1mM	10mM	20mM	50mM
Mass(mg)	0.5075	5.0750	10.1500	25.3750

References

1. Roberts WG, Ung E, Whalen P, Cooper B, Hulford C, Autry C, Richter D, Emerson E, Lin J, Kath J, Coleman K, Yao L, Martinez-Alsina L, Lorenzen M, Berliner M, Luzzio M, Patel N, Schmitt E, LaGreca S, Jani J, Wessel M, Marr E, Griffor M, Vajdos F . Antitumor activity and pharmacology of a selective focal adhesion kinase inhibitor, PF-562,271. Cancer Res. 2008 Mar 15;68(6):1935-44. doi: 10.1158/0008-5472.CAN-07-5155.
2. Gao C, Cahya S, Nicolaou CA, Wang J, Watson IA, Cummins DJ, Iversen PW, Vieth M . Selectivity data: assessment, predictions, concordance, and implications. J Med Chem. 2013 Sep 12;56(17):6991-7002. doi: 10.1021/jm400798j. Epub 2013 Aug 30.

Ordering Information

To order more of this or any other SYNkinase compound, go to synkinase.com, Call us Toll Free (US Only) at 1- 877-854-6273 or email orders@synkinase.com.

Product Datasheet (Rev. 1.1)