

PD173955

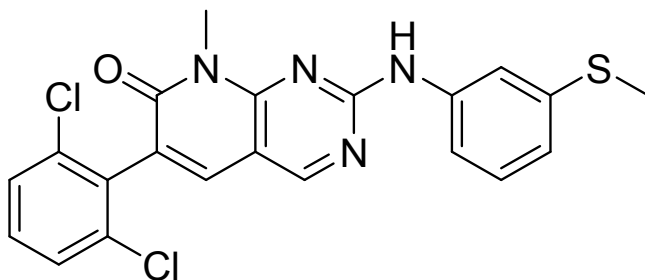
SYN-1061

6-(2,6-dichlorophenyl)-8-methyl-2-(3-(methylthio)phenylamino)pyrido[2,3-d]pyrimidin-7(8H)-one

CAS Registry No.: 260415-63-2

Smiles String:

Cn1c2c(cc(c1=O)c3c(cccc3Cl)Cl)cnc(n2)Nc4cccc(c4)SC



Molecular Weight: 443.35

Molecular Formula: C₂₁H₁₆Cl₂N₄O_S

Lot Number: Refer to vial

¹H-NMR: Available on request

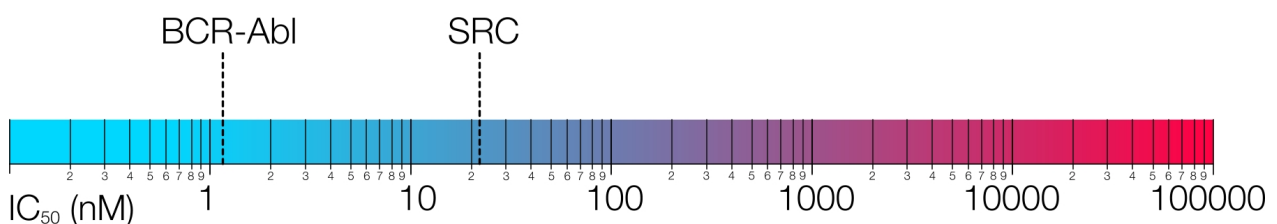
HPLC (Purity): > 95.0% @ 254 nm

ES-MS: Available on request

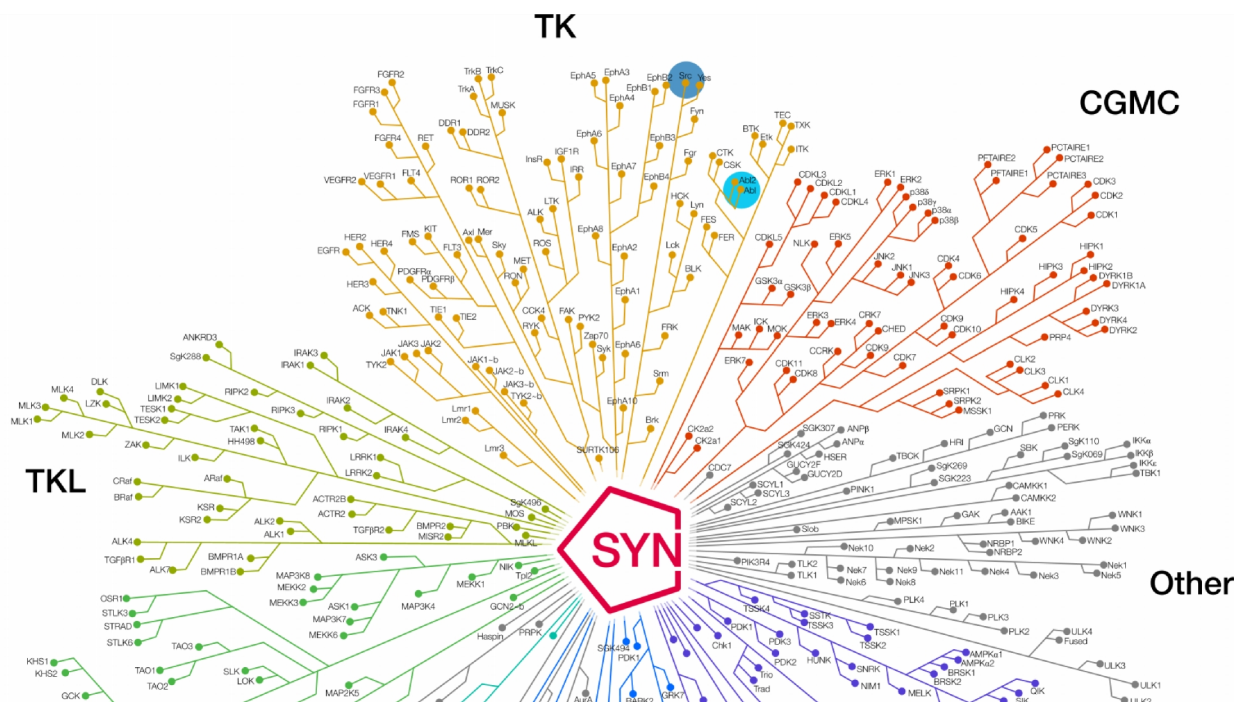
Description:

PD173955 is an ATP-competitive, dual Src/Abl kinase inhibitor. It is a potent inhibitor of Bcr-Abl with an IC₅₀ of 1-2 nM in kinase inhibition assays. In cellular growth assays it inhibits Bcr-Abl-dependent substrate tyrosine phosphorylation. PD173955 also inhibits Src kinase activity in vitro with an IC₅₀ of 22 nM and could represent a novel class of anti-mitotic drug.

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 112mg/mL, Ethanol 4mg/mL

Preparing Stock Solutions

Stock Solution (1ml DMSO)	1mM	10mM	20mM	50mM
Mass(mg)	0.4433	4.4335	8.8670	22.1675

References

1. Nagar B, Bornmann WG, Pellicena P, Schindler T, Veach DR, Miller WT, Clarkson B, Kuriyan J . Crystal structures of the kinase domain of c-Abl in complex with the small molecule inhibitors PD173955 and imatinib (STI-571). Cancer Res. 2002 Aug 1;62(15):4236-43.

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)