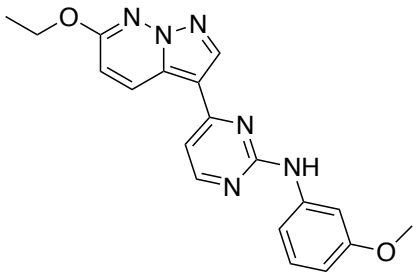
CLK4

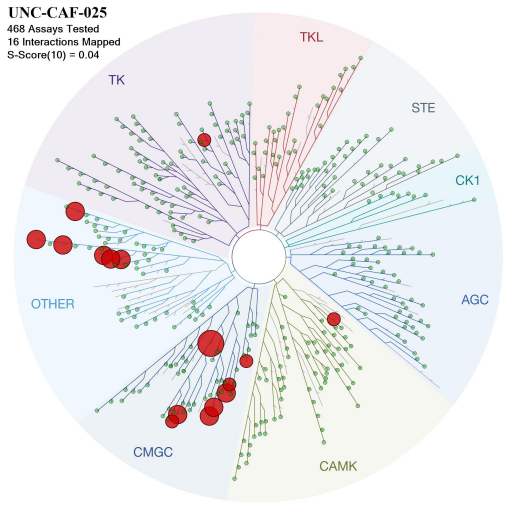


CAF-025

Chemical Name: 4-(6-ethoxypyrazolo[1,5-*b*]pyridazin-3-yl)-*N*-(3-methoxyphenyl)pyrimidin-2-amine
CHEBI:143118
Smile String: CCOC1=NN2N=CC(C3=CC=NC(NC4=CC(OC)=CC=C4)=N3)=C2C=C1
Chemical Formula: $C_{19}H_{18}N_6O_2$
Molecular Weight: 362.39
cLogP: 2.474
Source: SGC-UNC

Biochemical profiling

DiscoverX (403 wild-type human kinases)
S_{10} (1μM): 0.042 (17 kinases < 10% control)



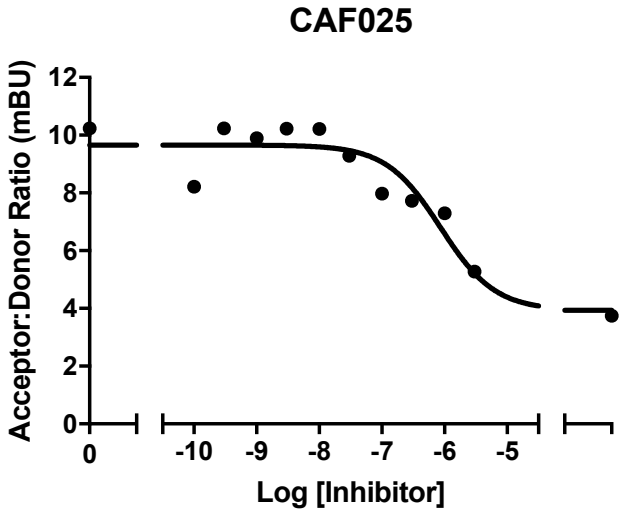
Kinase	% Control @ 1uM
ERK8	0.9
Nek6	1.1
Nek3	1.3
PLK3	1.3
HIPK2	1.6
JNK1	1.8
HIPK1	2.8
CLK4	3.2
Nek5	3.2
Nek9	4.8
Nek7	4.9
JNK3	5.6
CLK1	5.9
PIP5K2C	6.5
DRAK1	8.4
JAK2	9.1
CDKL3	9.9

a.Treespot of DiscoverX KINOMEscan data. b. List of kinases inhibited < 10% control

Cellular target engagement in HEK293 cells

CLK4-NLuc (C term)

CLK4 IC_{50} = 867 nM



Cellular target engagement of CAF-025 with CLK4

Synthetic Route: