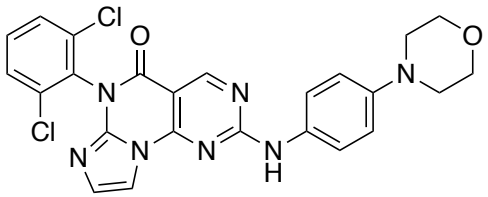
WEE2

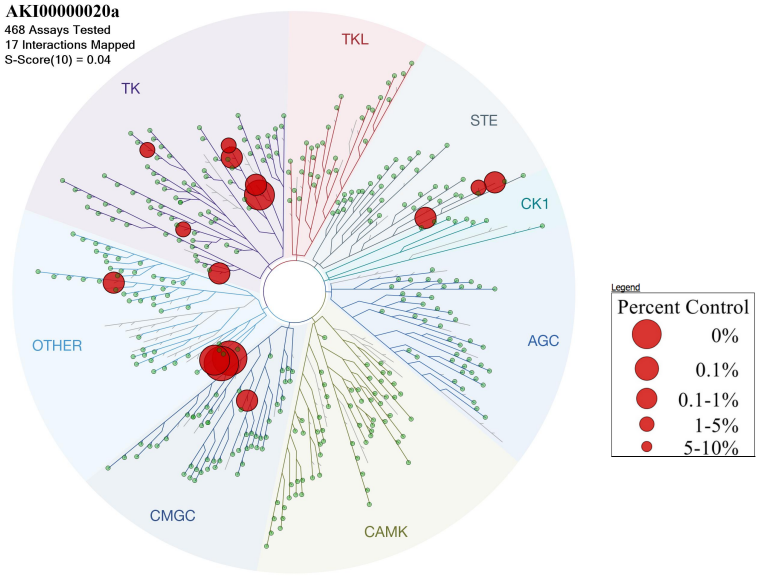


AKI00000020a

Chemical Name: 6-(2,6-dichlorophenyl)-2-((4-morpholinophenyl)amino)imidazo[1,2-*a*]pyrimido[5,4-*e*]pyrimidin-5(6*H*)-one
CHEBI: 39790
Smile String: O=C(N(C1=C(Cl)C=CC=C1Cl)C2=NC=CN23)C4=C3N=C(NC5=CC=C(N6CCOCC6)C=C5)N=C4
Chemical Formula: $C_{24}H_{19}Cl_2N_7O_2$
Molecular Weight: 508.36
cLogP: 1.803
Source: SGC-UNC (Abbvie donation)
Reference: N/A

Biochemical profiling

DiscoverX (403 wild-type human kinases)
S_{10} (1μM): 0.037 (15 kinase < 10% control)
WEE2 IC_{50} = 10 nM



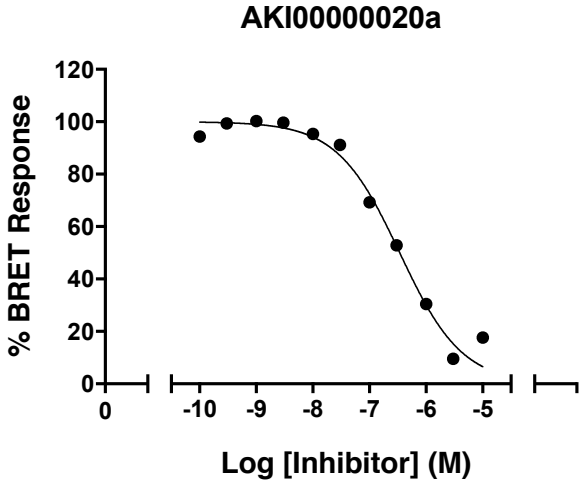
Kinase	% Control @ 1uM
WEE1	0.1
WEE2	0.1
DDR1	0.2
EIF2AK4	0.9
DDR2	1.4
NEK2	1.6
MAP3K3	1.9
MAP3K4	2
MAPK6	2.6
SYK	3.3
JAK2	4.3
LCK	5.5
MAP3K2	6.3
JAK3	7.1
CSF1R	9.6

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

Cellular target engagement in HEK293 cells

NLuc-WEE2 (N term)

WEE2 IC_{50} = 342 nM



Cellular target engagement of AKI00000020a with WEE2