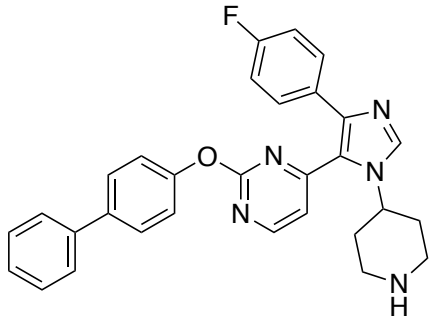
STK32A



SB-245391

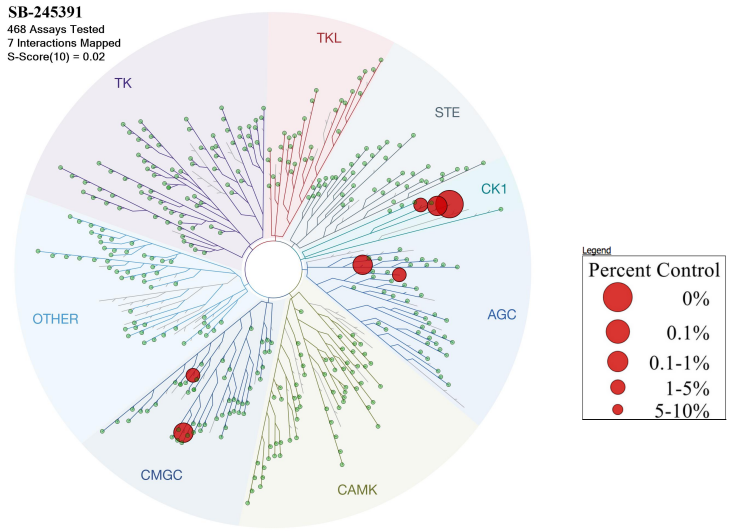
Chemical Name: 2-([1,1'-biphenyl]-4-yloxy)-4-(4-(4-fluorophenyl)-1-(piperidin-4-yl)-1*H*-imidazol-5-yl)pyrimidine
CHEBI: 144676
Smile String:
FC1=CC=C(C2=C(C3=NC(OC4=CC=C(C5=CC=CC=C5)C=C4)=NC=C3)N(C6CCNCC6)C=N2)C=C1
Chemical Formula: $C_{30}H_{26}FN_5O$
Molecular Weight: 491.21
cLogP: 4.27
Source: SGC-UNC
Reference:
Drewry, D. H.; *et al*. “Progress towards a public chemogenomic set for protein kinases and a call for contributions.” *PLoS ONE* **2017**, *12*, e0181585.

Biochemical profiling

DiscoverX (403 wild-type human kinases)

S_{10} (1µM): 0.017 (7 kinase < 10% control)

STK32A K_d = 460 nM



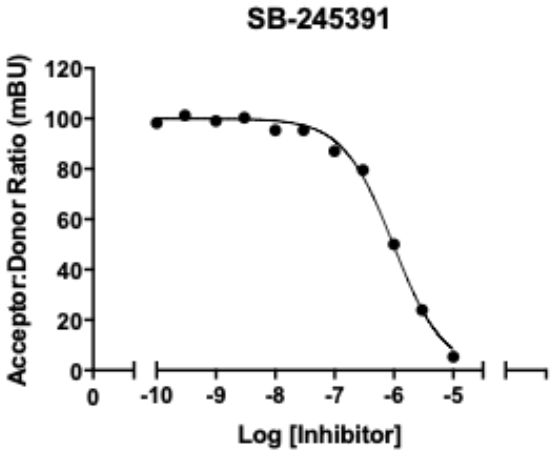
Kinase	% Control @ 1uM
CSNK1E	0.5
CIT	1.1
CSNK1D	3.8
p38-alpha	4
CSNK1A1	6.1
CDK8	7.2
STK32A	9.2
STK32C	14
DMPK2	14
STK32B	15
TYK2 (JH2domain)	16

a.Treespot of DiscoverX KINOMEscan data. b. List of kinases inhibited < 20% control

Cellular target engagement in HEK293 cells

NLuc-STK32A (N term)

STK32A IC_{50} = 972 nM



Cellular target engagement of SB-245391 with STK32A