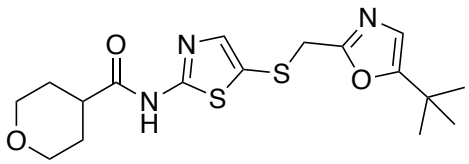
CDK18

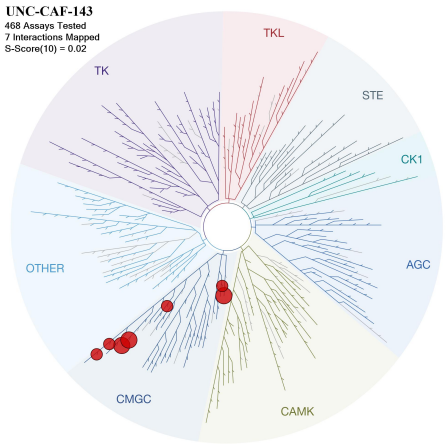


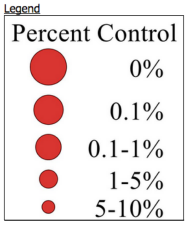
CAF-143

Chemical Name:
N-(5-(((5-(*tert*-butyl)oxazol-2-yl)methyl)thio)thiazol-2-yl)tetrahydro-2*H*-pyran-4-carboxamide
CHEBI:143113
Smile String:
O=C(C1CCOCC1)NC2=NC=C(SCC3=NC=C(C(C)(C)C)O3)S2
Chemical Formula: $C_{17}H_{23}N_3O_3S_2$
Molecular Weight: 381.51
cLogP: 0.574
Source: SGC-UNC
Reference: N/A

Biochemical profiling

DiscoverX (403 wild-type human kinases)
S_{10} (1μM): 0.017 (7 kinases < 10% control)
CDK18 K_d = 35 nM





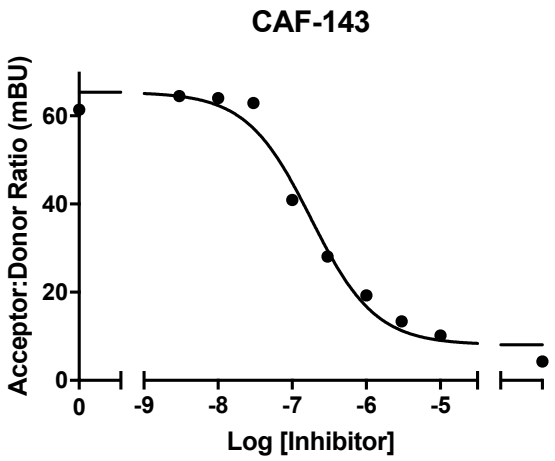
Kinase	% Control @ 1uM
CDK3	1.2
CDK2	1.7
ICK	4.4
GSK3A	5
CDK7	6.3
PCTK3	7.6
PCTK1	7.8

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

Cellular target engagement in HEK293 cells

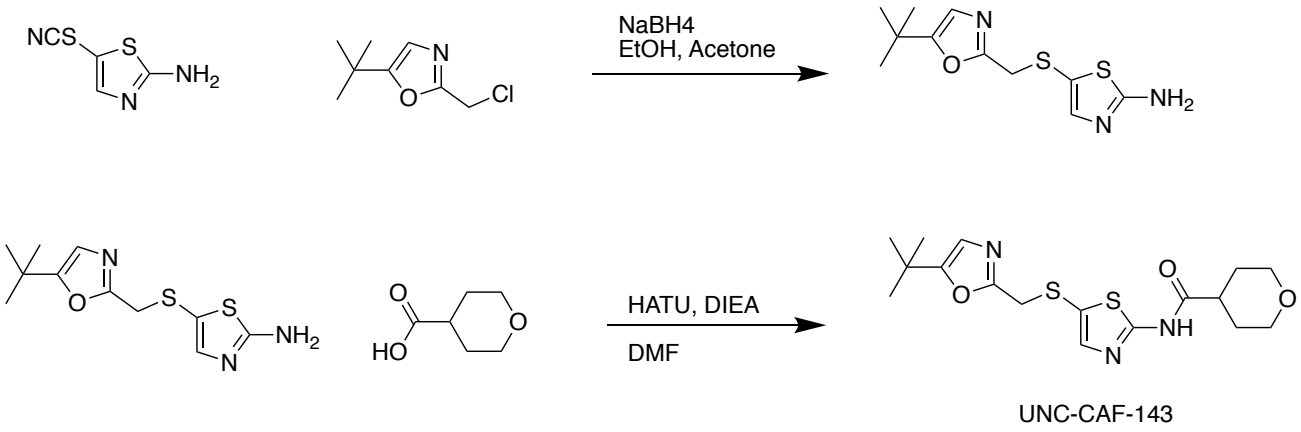
CDK18-NLuc (C term)

CDK18 IC_{50} = 180 nM



Cellular target engagement of CAF-143 with CDK18 / Cyclin Y

Synthetic Route:



UNC-CAF-143