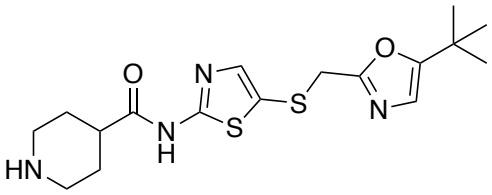
CDK10



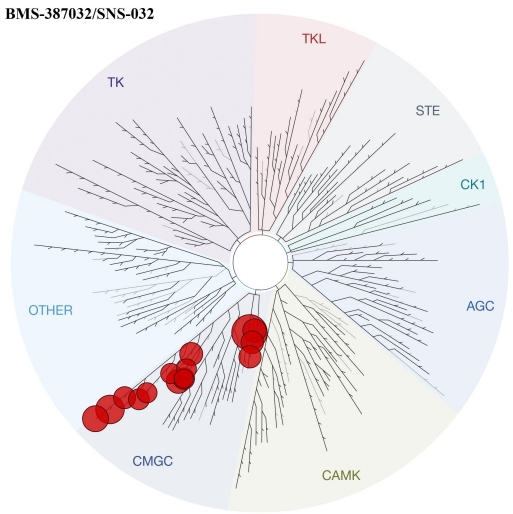
SNS-032

Chemical Name: N-[5-[[[5-(1,1-dimethylethyl)-2-oxazolyl]methyl]thio]-2-thiazolyl]-4-piperidinecarboxamide
CHEBI: 91399
Smile String: CC(C)(C)C1=CN=C(CSC2=CN=C(NC(C3CCNCC3)=O)S2)O1
Chemical Formula: $C_{17}H_{24}N_4O_2S_2$
Molecular Weight: 380.53
cLogP: 0.554
Source: Selleck Chem, Med Chem Express
Reference: Davis, M. I.; *et al*. "Comprehensive analysis of kinase inhibitor selectivity." *Nat Biotechnol*. **2011**, *29*, 1046–51.

Biochemical profiling
DiscoverX (403 wild-type human kinases)

16 kinases < 100nM
CDK10 K_d = nt

82.8% Inhibition following 1uM treatment in Kinativ experiment

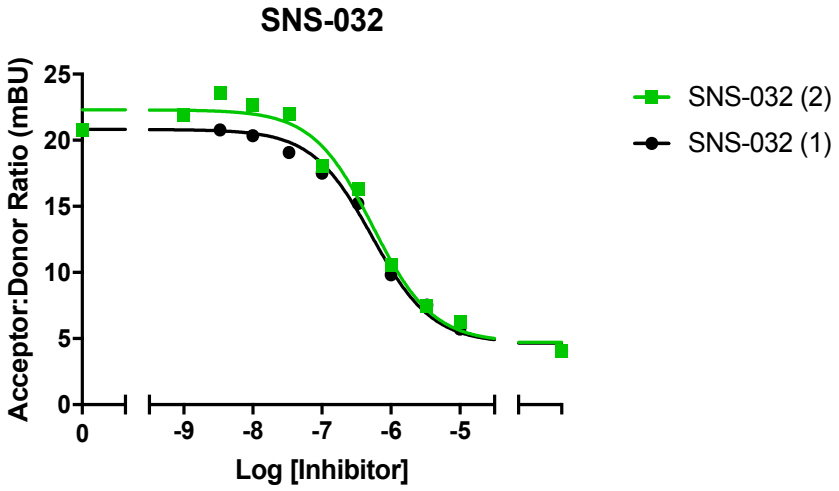


Kinase	K_d (nM)
CDKL5	1.7
PCTK1	7.1
PCTK2	13
CDC2L5	23
GSK3A	28
CDK7	31
GSK3B	37
CDKL2	41
PCTK3	44
CDC2L2	48
CDK3	56
CDK4	66
CDK2	69
CDK4	69
CDK9	76
CDC2L1	98

Cellular target engagement in HEK293 cells

CDK10-NLuc (C term)

CDK10 IC_{50} = 530 nM
N=2



Cellular target engagement of SNS-032 with CDK10 / Cyclin L2