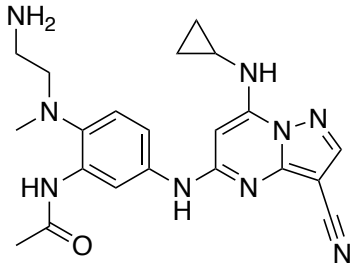
CSNK2A2



AZ-G/AZKI-012a

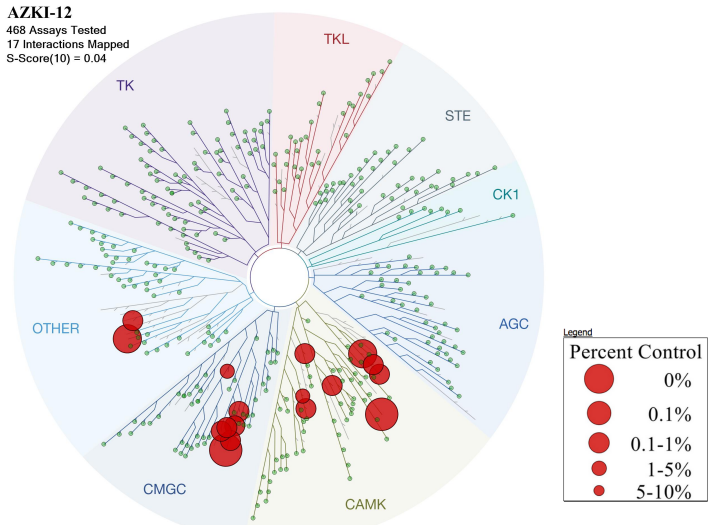
Chemical Name: *N*-(2-((2-aminoethyl)(methyl)amino)-5-((3-cyano-7-(cyclopropylamino)pyrazolo[1,5-*a*]pyrimidin-5-yl)amino)phenyl)acetamide
CHEBI:143115
Smile String:
CN(C1=CC=C(NC2=NC3=C(C#N)C=NN3C(N([H])C4CC4)=C2)C=C1NC(C)=O)CCN
Chemical Formula: $C_{21}H_{25}N_9O$
Molecular Weight: 419.49
cLogP: -0.5034
Source: SGC-UNC
Reference: Dowling, J .E.; *et al*. “Potent and selective CK2 kinase inhibitors with effects on Wnt pathway signaling *in vivo*.” *ACS Med Chem Lett*. **2016**, *7*, 300–305.

Biochemical profiling

DiscoverX (403 wild-type human kinases)

S_{10} (1μM): 0.042 (17 kinases < 10% control)

CSNK2A2 K_d (DiscoverX) = 0.054 nM



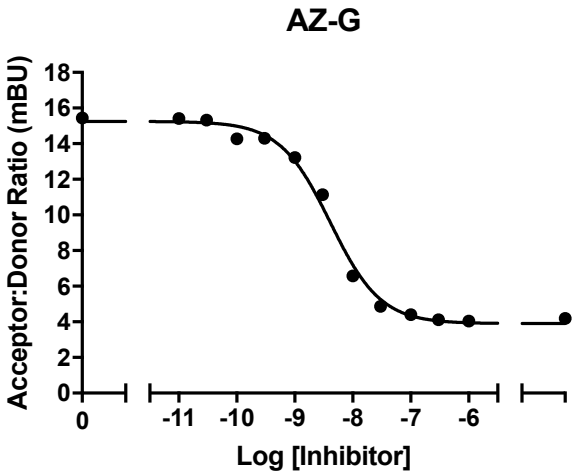
Kinase	% Control @ 1uM
RPS6KA4	0.1
HIPK2	0.1
CSNK2A2	0.5
DAPK2	0.7
DAPK3	1.1
CHEK2	1.4
HIPK3	1.6
DAPK1	1.8
HIPK1	1.9
DYRK1A	2.1
DCAMKL3	2.2
BUB1	3.7
HIPK4	4.1
PIM3	4.7

List of kinases inhibited < 5% control

Cellular target engagement in HEK293 cells

CSNK2A2-NLuc (C term)

CSNK2A2 IC_{50} = 4.1 nM



Cellular target engagement of AZ-G with CSNK2A2