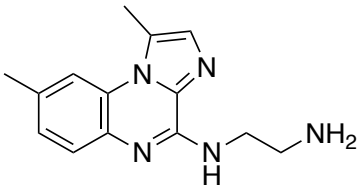
CDK11B



BMS345541

Chemical Name: N^1-(1,8-dimethylimidazo[1,2-*a*]quinoxalin-4-yl)ethane-1,2-diamine
CHEBI: 91340
Smile String: CC1=CC2=C(N=C(NCCN)C3=NC=C(C)N23)C=C1
Chemical Formula: $C_{14}H_{17}N_5$
Molecular Weight: 255.33
cLogP: 0.7562
Source: Selleck Chem, Med Chem Express
Reference:

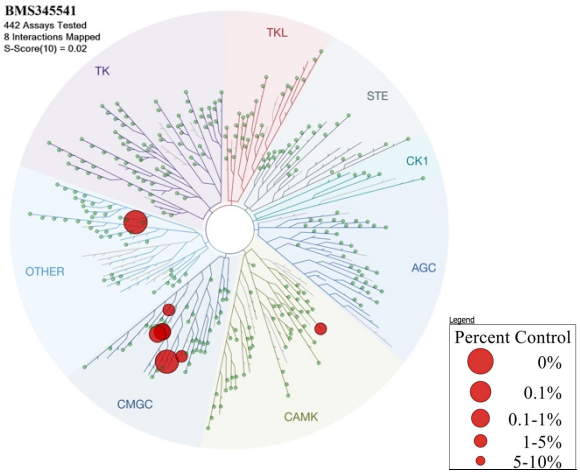
Davis, M. I.; *et al*. "Comprehensive analysis of kinase inhibitor selectivity." *Nat Biotechnol*. **2011**, *29*, 1046–51.

Biochemical profiling

DiscoverX (403 wild-type human kinases)

S_{10} (10μM) = 0.02 (8 kinases < 10% control)

CDK11B K_d = 420nM



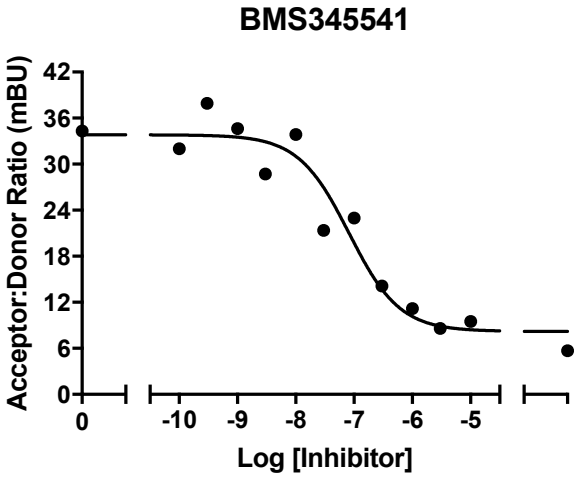
Kinase	%Inh @ 10μM
IKKB	0.6
ERK5	0.7
CDC2L1 (CDK11b)	1
CDC2L2 (CDK11a)	1
CDC2L5 (CDK13)	4.7
CDK7	6.3
DYRK2	8.8
MYLK4	8.8

List of kinases inhibited <10% control at 10μM

Cellular target engagement in HEK293 cells

CDK11B-NLuc (C term)

CDK11B IC_{50} = 82 nM



Cellular target engagement of BMS345541 with CDK11B/ Cyclin K