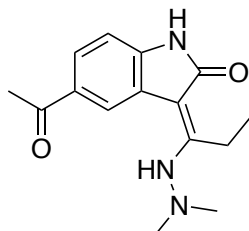


# DYRK1B



BI00036838

**Chemical Name:** (*E*)-5-acetyl-3-(1-(2,2-dimethylhydrazineyl)propylidene)indolin-2-one

**CHEBI:**143116

**Smile String:** O=C(C)C(C=C1)=CC(/C2=C(CC)\NN(C)C)=C1NC2=O

**Chemical Formula:** C<sub>15</sub>H<sub>19</sub>N<sub>3</sub>O<sub>2</sub>

**Molecular Weight:** 273.34

**cLogP:** 0.8022

**Source:** SGC-UNC

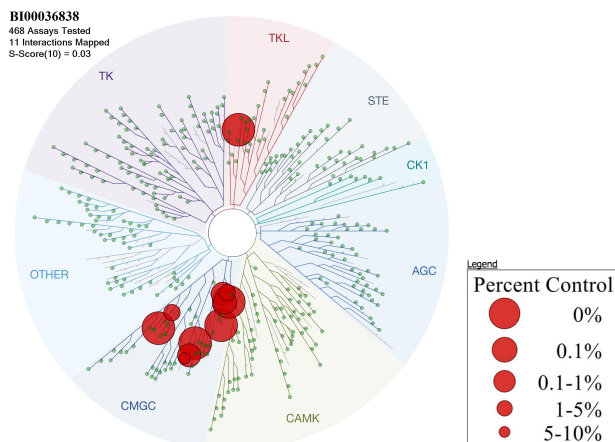
**Reference:** WO 2005087727

## Biochemical profiling

DiscoverX (403 wild-type human kinases)

**S<sub>10</sub> (1 μM):** 0.03 (12 kinases < 10% control)

**DYRK1B K<sub>d</sub>** (DiscoverX) = 35 nM



List of kinases inhibited < 10% control

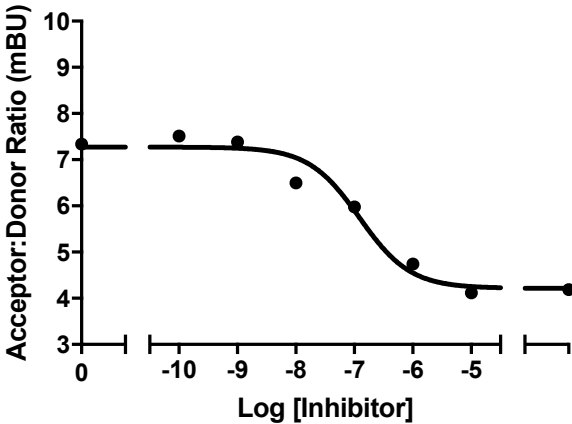
Kinase	% Control @ 1uM
RIPK4	0
PIK4CB	0
ICK	0
DYRK1B	0
CDKL3	0
CDK19	0
GSK3B	0.2
DYRK1A	0.5
CDKL5	0.5
DYRK1A	0.5
GSK3B	1
CDK7	4.2
DYRK2	5.8

# Cellular target engagement in HEK293 cells

NLuc-DYRK1B (N term)

BI00036838

DYRK1B IC<sub>50</sub> = 120 nM



Cellular target engagement of BI00036838 with DYRK1B