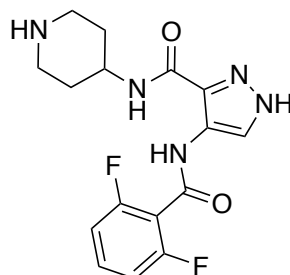


# CDK17



YL-206

## Chemical Name:

4-(2,6-difluorobenzamido)-*N*-(piperidin-4-yl)-1*H*-pyrazole-3-carboxamide

**CHEBI:**143124

## Smile String:

O=C(C1=C(F)C=CC=C1F)NC2=CN=C2C(NC3CCNCC3)=O

**Chemical Formula:** C<sub>16</sub>H<sub>17</sub>F<sub>2</sub>N<sub>5</sub>O<sub>2</sub>

**Molecular Weight:** 349.34

**cLogP:** -1.154

**Source:** SGC-UNC

**Reference:** N/A

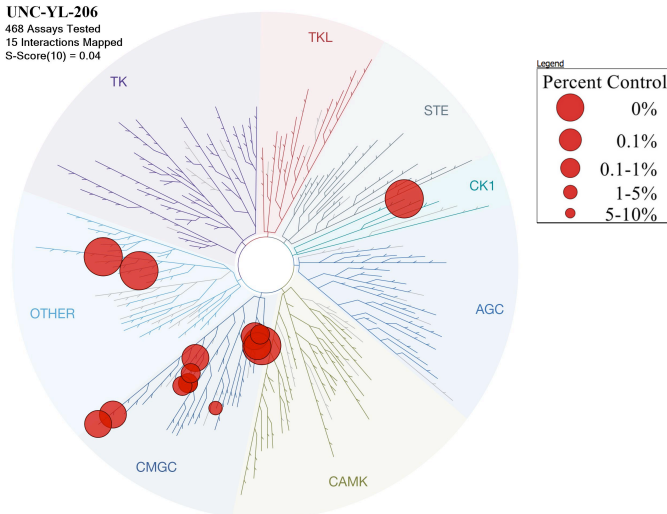
## Biochemical profiling

DiscoverX (403 wild-type human kinases)

**S<sub>10</sub> (1μM):** 0.037 (15 kinases < 10% control)

**CDK17 K<sub>d</sub>** = 27 nM

UNC-YL-206  
468 Assays Tested  
15 Interactions Mapped  
S-Score(10) = 0.04



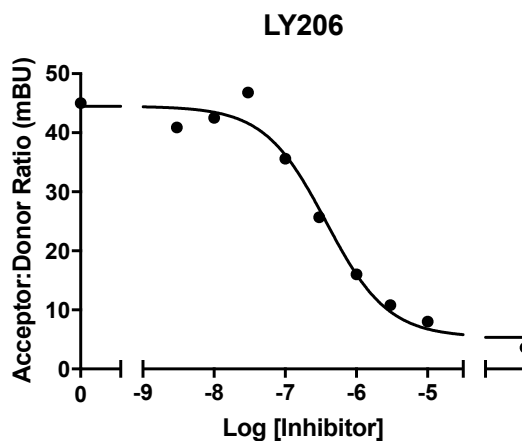
Kinase	% Control @ 1uM
CSNK1G1	0
GAK	0
ICK	0
NEK2	0
CDK16	0.2
CDKL5	0.4
CDK17	0.5
CDK7	0.6
GSK3B	0.6
CDK11A	2.3
GSK3A	2.4
CDK11B	4
CDK9	4.5
CDK13	4.8
DYRK1A	5.1

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

## Cellular target engagement in HEK293 cells

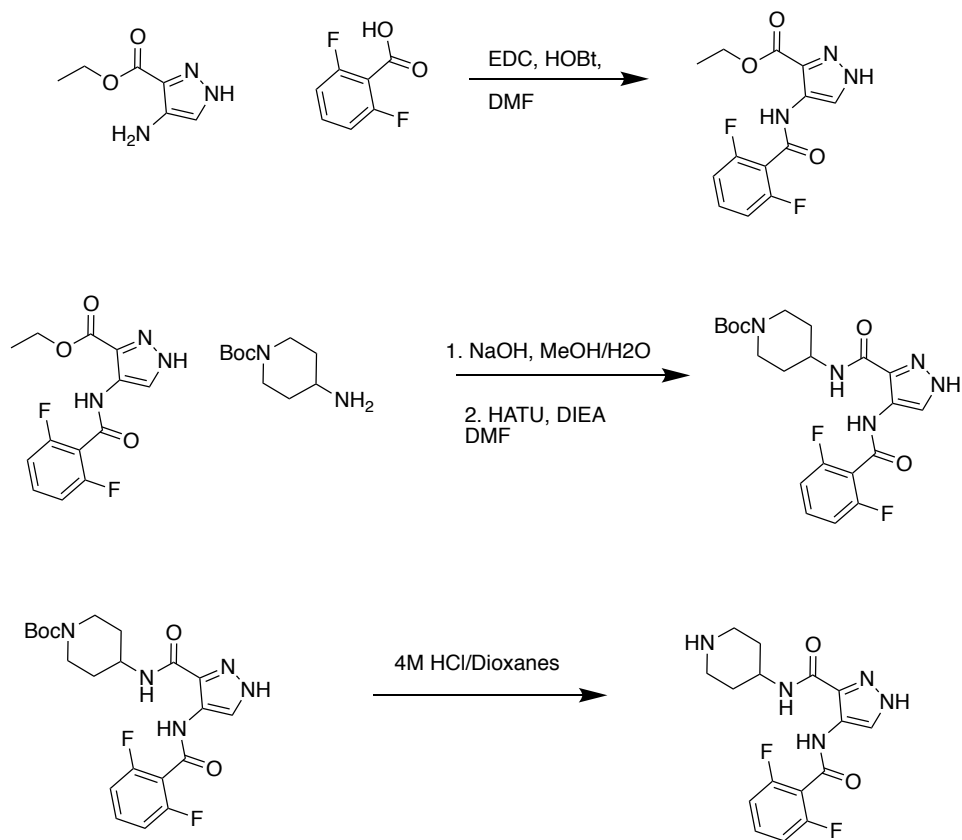
CDK17-NLuc (C term)

CDK17 IC<sub>50</sub> = 380 nM



Cellular target engagement of YL-206 with CDK17 / Cyclin Y

## Synthetic Route:



Solvent: DMSO- $d_6$   
Frequency: 400 MHz

yl-1-206-2

