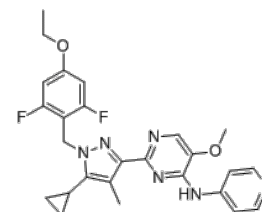


**Product Name** : BAY-320  
**Cat. No.** : PC-35361  
**CAS No.** : 1445830-50-1  
**Molecular Formula** : C<sub>26</sub>H<sub>26</sub>F<sub>2</sub>N<sub>6</sub>O<sub>2</sub>  
**Molecular Weight** : 492.531  
**Target** : Cyclin-dependent Kinase (CDK)  
**Solubility** : 10 mM in DMSO



## Biological Activity

BAY-320 (BAY320) is a potent, selective, ATP-competitive inhibitor of **Bub1 kinase** with IC<sub>50</sub> of 680 nM. BAY-320 displays modest cross reactivity with a panel of 222 kinases at 10 μM. BAY-320 reduces T120 phosphorylation of histone H2A in intact cells, affects chromosome association of Shugoshin proteins and the chromosomal passenger complex (CPC), without abolishing global Aurora B function, impairs chromosome arm resolution with minor effects on mitotic progression or SAC function. BAY-320 sensitizes cells to Paclitaxel, impairing both chromosome segregation and cell proliferation.

## References

Baron AP, et al. *Elife*. 2016 Feb 17;5. pii: e12187.

**Caution: Product has not been fully validated for medical applications. Lab Use Only!**

E-mail: tech@probechem.com