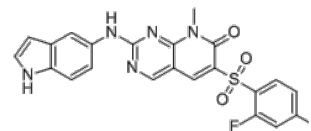


**Product Name** : ON1231320  
**Cat. No.** : PC-73207  
**CAS No.** : 1312471-39-8  
**Molecular Formula** : C<sub>22</sub>H<sub>15</sub>F<sub>2</sub>N<sub>5</sub>O<sub>3</sub>S  
**Molecular Weight** : 467.45  
**Target** : Polo-like Kinase (PLK)  
**Solubility** : 10 mM in DMSO



## Biological Activity

ON1231320 is a highly specific, ATP-mimetic polo-like kinase 2 (**PLK2**) inhibitor with IC<sub>50</sub> of 0.31 μM.

ON1231320 displays no activity against PLK1//3/4 (IC<sub>50</sub>>50 μM), high selectivity against a panel of 288 wild-type, 55 mutant and 12 special kinases.

ON1231320 affects cell cycle progression by blocking tumor cells in the G<sub>2</sub>/M phase however it does not affect normal human fibroblasts.

ON1231320 has anticancer effects in glioma cells.

## References

M V Ramana Reddy, et al. *Bioorg Med Chem*. 2016 Feb 15;24(4):521-44.

Shashidhar S. Jatiani, et al. *Cancer Res* (2011) 71 (8\_Supplement): 643.

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

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