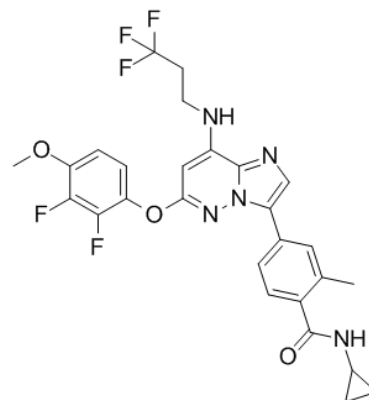


**Product Name** : BAY1217389  
**Cat. No.** : PC-43262  
**CAS No.** : 1554458-53-5  
**Molecular Formula** : C<sub>27</sub>H<sub>24</sub>F<sub>5</sub>N<sub>5</sub>O<sub>3</sub>  
**Molecular Weight** : 561.5032  
**Target** : Monopolar Spindle 1 (Mps1/TTK)  
**Solubility** : DMSO: ≥ 28 mg/mL



## Biological Activity

BAY1217389 (BAY-1217389) is a potent, selective Monopolar spindle 1 (**Mps1/TTK**) inhibitor with IC<sub>50</sub> of 0.63 nM. BAY1217389 shows excellent kinase selectivity in DiscoverX kinase panel (395 kinases), with exception of PDGFRβ (<10 nM), Kit (10-100 nM).

BAY1217389 abrogates nocodazole-induced metaphase arrest in HeLa cells with IC<sub>50</sub> of 0.11 nM, inhibits the proliferation of a panel tumor cell lines covering various cancer with IC<sub>50</sub> of 3-300 nM.

BAY1217389 enhances the efficacy of antimetabolic cancer drugs and shows potentially overcome resistance in vivo.

## References

Wengner AM, et al. *Mol Cancer Ther.* 2016 Apr;15(4):583-92.

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

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