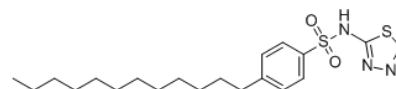


**Product Name** : PHT-427  
**Cat. No.** : PC-42878  
**CAS No.** : 1191951-57-1  
**Molecular Formula** : C<sub>20</sub>H<sub>31</sub>N<sub>3</sub>O<sub>2</sub>S<sub>2</sub>  
**Molecular Weight** : 409.609  
**Target** : Akt  
**Solubility** : 10 mM in DMSO



## Biological Activity

PHT-427 (PHT427) is a small-molecule **Akt** inhibitor that binds selectively to the PH domain of AKT with K<sub>i</sub> of 2.4 μM, inhibits phospho-Ser473-AKT in Panc-1 cells with IC<sub>50</sub> of 6.3 μM.

PHT-427 decreases AKT activation and causes apoptosis at low micromolar concentrations in Panc-1 and MiaPaCa-2 pancreatic cancer cell lines.

PHT-427 inhibits AKT and its downstream targets in cells, exhibits good antitumor activity in pancreatic cancer cell xenografts in immunocompromised mice.

## References

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Meuillet EJ, et al. *Mol Cancer Ther.* 2010 Mar;9(3):706-17.

Dickinson SE, et al. *Cancer Prev Res (Phila).* 2016 Mar;9(3):215-24.

Kobes JE, et al. *Pancreas.* 2016 Sep;45(8):1158-66.

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

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