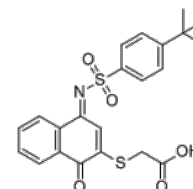


**Product Name** : KPT-6566  
**Cat. No.** : PC-61182  
**CAS No.** : 881487-77-0  
**Molecular Formula** : C<sub>22</sub>H<sub>21</sub>NO<sub>5</sub>S<sub>2</sub>  
**Molecular Weight** : 443.532  
**Target** : Other Targets  
**Solubility** : 10 mM in DMSO



## Biological Activity

KPT-6566 (KPT6566) is a potent, specific and covalent inhibitor of the **prolyl isomerase PIN1** with K<sub>i</sub> of 625.2 nM, IC<sub>50</sub> of 0.64 μM.

KPT-6566 displays no activity against other PPIases, including GFKBP4 and PPIA.

KPT-6566 covalently binds to the catalytic site of PIN1, decreases the expression levels of mut-p53 and NOTCH1 target genes, inhibits colony forming efficiency in MDA-MB-231 cells (IC<sub>50</sub>=1.2 μM) through specific PIN1 inhibition.

KPT-6566 curbs self-renewal of breast cancer stem cells and promotes degradation of PIN1, elicits cellular responses to oxidative stress and induces DNA damage in a PIN1-dependent manner, induces cell death of cancer cells and reduces metastasis growth in vivo.

## References

Campaner E, et al. *Nat Commun.* 2017 Jun 9;8:15772.

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

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