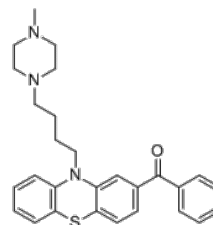


**Product Name** : NCI677397  
**Cat. No.** : PC-21573  
**CAS No.** : 907547-06-2  
**Molecular Formula** : C<sub>28</sub>H<sub>31</sub>N<sub>3</sub>OS  
**Molecular Weight** : 457.64  
**Target** : Deubiquitinase (DUB)  
**Solubility** : 10 mM in DMSO



CAS: 907547-06-2

### Biological Activity

NCI677397 (USP24-i) is a specific small molecule inhibitor of **USP24**, inhibits chemotherapy-induced drug resistance in vitro and in vivo.

NCI677397 did not block the catalytic activity of USP7, USP9x, or USP10.

NCI677397 decreased the levels of Bax, BRD7, and p300, also increased the ubiquitination of p300 in A549 cells.

NCI677397 inhibits chemotherapy-induced drug resistance in vitro and in vivo.

NCI677397 induced ferroptosis in drug-resistant cancer cells by increasing lipid reactive oxygen species (ROS) levels.

### References

Shao-An Wang, et al. *Cell Death Differ.* 2021 Sep;28(9):2690-2707.

Wang SA, et al. *Mol Oncol.* 2023 Dec 22. doi: 10.1002/1878-0261.13574.

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

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