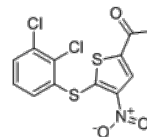


**Product Name** : P5091  
**Cat. No.** : PC-21561  
**CAS No.** : 882257-11-6  
**Molecular Formula** : C<sub>12</sub>H<sub>7</sub>Cl<sub>2</sub>NO<sub>3</sub>S<sub>2</sub>  
**Molecular Weight** : 348.21  
**Target** : Deubiquitinase (DUB)  
**Solubility** : 10 mM in DMSO



## Biological Activity

P5091 is a potent, specific inhibitor of ubiquitin-specific protease 7 (USP7) with IC<sub>50</sub> of 4.2 μM, does not inhibit other DUBs or other families of cysteine proteases (EC<sub>50</sub> > 100 μM).

P5091 does not inhibit other DUBs such as USP5, UCHL1, or UCHL3.

P5091 inhibits USP7-, but not USP2- or USP8-mediated cleavage of poly K48 linked ubiquitin chains.

P5091 induces HDM2 polyubiquitylation, and accelerate degradation of HDM2.

P5091 inhibits USP7 activity, induces MM cell death, and overcomes bortezomib-resistance.

## References

Chauhan D, et al. Cancer Cell. 2012 Sep 11;22(3):345-58.

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

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