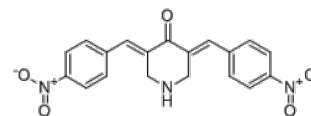


**Product Name** : USP8 inhibitor RA-9  
**Cat. No.** : PC-72534  
**CAS No.** : 919091-63-7  
**Molecular Formula** : C<sub>19</sub>H<sub>15</sub>N<sub>3</sub>O<sub>5</sub>  
**Molecular Weight** : 365.34  
**Target** : Deubiquitinase (DUB)  
**Solubility** : 10 mM in DMSO



## Biological Activity

USP8 inhibitor RA-9 is a small molecule **USP8** inhibitor.

USP8 inhibitor RA-9 inhibits colony formation of breast, ovarian and cervical cancer cells with IC<sub>50</sub> of <100 nM, completely abrogating colony formation at 0.3 μM.

USP8 inhibitor RA-9 inhibits deubiquitinating enzymes (DUB) and alters expression of DUB-regulated oncogenes and tumor suppressors.

USP8 inhibitor RA-9 directly suppress activities of major cellular DUB, such as UCH-L1, UCH-L3, USP2, USP5 and USP8, but do not inhibit Ataxin-3, A20CD, BAP1, Otubain 1, USP7/HAUSP or USP14.

## References

Issaenko OA, et al. *Cell Cycle*. 2012 May 1;11(9):1804-17.

Treppiedi D, et al. *Endocr Relat Cancer*. 2021 Jun 28;28(8):573-582

Zhu Y, et al. *Aging (Albany NY)*. 2021 Jun 3;13(11):14999-15012.

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

E-mail: tech@probechem.com