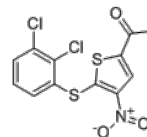


Product Name : P5091
Cat. No. : PC-21561
CAS No. : 882257-11-6
Molecular Formula : C₁₂H₇Cl₂NO₃S₂
Molecular Weight : 348.21
Target : Deubiquitinase (DUB)
Solubility : 10 mM in DMSO



Biological Activity

P5091 (P005091) is a potent, specific inhibitor of ubiquitin-specific protease 7 (**USP7**) with IC₅₀ of 4.2 μM, does not inhibit other DUBs or other families of cysteine proteases (EC₅₀ > 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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