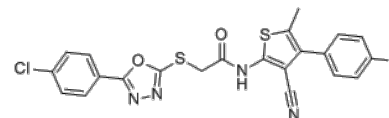


Product Name : TG2-179-1
Cat. No. : PC-20004
CAS No. : 1135023-19-6
Molecular Formula : C₂₂H₁₄ClFN₄O₂S₂
Molecular Weight : 484.95
Target : Deubiquitinase (DUB)
Solubility : 10 mM in DMSO



Biological Activity

TG2-179-1 is a potent, selective and covalently inhibitor of deubiquitinase (DUB) BRCA1-associated protein-1 (**BAP1**), covalently binds to the active site of BAP1 (Cys91), exhibits potent cytotoxic activity against colon cancer cells.

TG2-179-1 has potent cytotoxic activity against colon cancer cells with IC₅₀ of <10 uM against HCT116, HT29 and SW48 cells, and BAP1-proficient cells are more sensitive to TG2-179-1 than BAP1-deficient cells.

TG2-179-1 exerts its cytotoxic activity against colon cancer cells as well as other types of cancer cells, such as mesothelioma and ccRCC, by targeting BAP1.

TG2-179-1 induces replication defects in colon cancer cells and increases the level of γ-H2AX in a dose-dependent manner in HCT116 cells, which is similar to BAP1 depletion.

TG2-179-1 inhibits the growth of colon tumors in mice.

References

Kang M, et al. *Sci Rep*. 2023 Feb 8;13(1):2264.

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

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