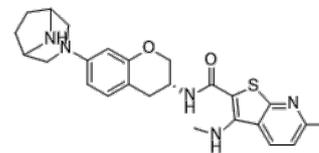


Product Name : CT1113
Cat. No. : PC-22261
CAS No. : 2523435-18-7
Molecular Formula : C₂₅H₂₉N₅O₂S
Molecular Weight : 463.60
Target : Deubiquitinase (DUB)
Solubility : 10 mM in DMSO



CAS: 2523435-18-7

Biological Activity

CT1113 is a potent, selective small molecule **USP25/USP28** inhibitor with IC₅₀ of 26.1 nM/3.9 nM, respectively.

CT1113 displays no activity against other deubiquitinases and SENP1 at 1 μM.

CT1113 strongly destabilize NOTCH1 and inhibit the growth of T-ALL cells.

Inhibition of USP28 by CT1113 resulted in increased ubiquitination of the ICN1 protein in T-ALL cell lines (Jurkat and MOLT-4).

CT1113 induces apoptosis in T-ALL cells with or without mutant NOTCH1.

CT1113 significantly inhibited leukaemia progression in Jurkat xenograft, inhibits NOTCH1-driven T-cell leukaemogenesis.

CT1113 demonstrated anti-leukaemia efficacy in a NOTCH1-independent patient-derived T-ALL xenograft.

References

Jin Peng, et al. *Signal Transduct Target Ther.* 2022 Dec 8;7(1):393.

Jieyu Xu, et al. *Br J Haematol.* 2024 Apr 29. doi: 10.1111/bjh.19492.

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

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