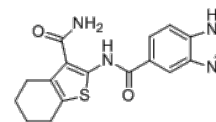


Product Name : CRCD2
Cat. No. : PC-49276
CAS No. : 941185-83-7
Molecular Formula : C₁₇H₁₆N₄O₂S
Molecular Weight : 340.401
Target : Other Targets
Solubility : 10 mM in DMSO



Biological Activity

CRCD2 is a first-in-class specific small molecule inhibitor of the cytosolic 5' nucleotidase II (**NT5C2**), directly binds to NT5C2 R367Q recombinant protein with KD of 70.9 μ M, shows broadly activities against leukemias bearing highly prevalent relapse-associated mutant forms of NT5C2 in vitro and in vivo.

CRCD2 displays dose-dependent low micromolar inhibitory capacity against both NT5C2 wild-type and the R367Q mutant and significantly reduces NT5C2 K359Q nucleotidase activity.

CRCD2 treatment enhances the cytotoxic activity of 6-MP in NT5C2 wild type leukemias.

CRCD2 reverses genetic and non-genetic drivers of 6-MP resistance in acute lymphoblastic leukemia.

NT5C2 inhibitor CRCD2 sensitizes both NT5C2 WT (Nt5c2+/co-R367Q) and NT5C2 mutant (Nt5c2+/R367Q) mouse lymphoblasts to 6-MP.

References

Clara Reglero, et al. *Cancer Discov.* 2022 Aug 19;CD-22-0010.

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

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