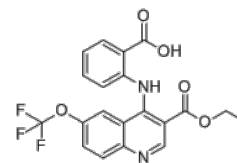


Product Name : BCH001
Cat. No. : PC-72257
CAS No. : 384859-58-9
Molecular Formula : C₂₀H₁₅F₃N₂O₅
Molecular Weight : 420.344
Target : Telomerase
Solubility : 10 mM in DMSO



Biological Activity

BCH001 (BCH-001) a specific, small molecule **PAPD5** inhibitor, inhibits rPAPD5 in the low micromolar range in vitro.

BCH001 showed no inhibition of PARN or several other canonical and non-canonical polynucleotide polymerases.

BCH001 exhibited ATP- and dose-dependent binding to rPAPD5.

BCH001 (0.1-1 uM) restores TERC and telomere length in dyskeratosis congenita (DC) patient iPSCs, reversibly normalizes telomere length and non-coding RNA biogenesis.

BCH001 upregulates TERC without immortalizing TERT-negative cells, restores TERC maturation in PARN-deficient primary human HSPCs and leukemia cell lines.

References

Nagpal N, et al. *Cell Stem Cell*. 2020 Jun 4;26(6):896-909.e8.

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

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