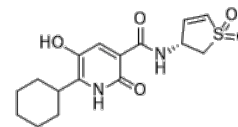


Product Name : GSK_WRN3
Cat. No. : PC-22109
CAS No. : 2923009-50-9
Molecular Formula : C₁₆H₂₀N₂O₅S
Molecular Weight : 352.41
Target : DNA Repair Protein
Solubility : 10 mM in DMSO



CAS: 2923009-50-9

Biological Activity

GSK_WRN3 (WRNi, GSK-WRN3) is a potent and highly selective **WRN helicase** covalent inhibitor with biochemical pIC₅₀ of 8.6, covalently targets WRN Cys727 residue.

GSK_WRN3 displays exceptional specificity for WRN over other RecQ helicases (RecQ5, RecQ1, BLM), significantly modifies WRN Cys727 in Jurkat cells demonstrating the remarkable specificity.

GSK_WRN3 selectively inhibits microsatellite-unstable (MSI) cell growth in vitro and phenocopies genetic inactivation, induces cytotoxic chromosomal instability and DNA damage in MSI cancer cells, by selectively degrading WRN and concurrently upregulating DNA damage response markers such as p-ATM, p-KAP1, p21, and γ-H2AX.

References

Picco G, et al. *Cancer Discov.* 2024 Apr 9. doi: 10.1158/2159-8290.CD-24-0052.

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

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