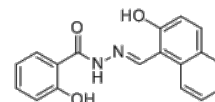


Product Name : NSAH
Cat. No. : PC-70217
CAS No. : 1099592-35-4
Molecular Formula : C₁₈H₁₄N₂O₃
Molecular Weight : 306.321
Target : Nucleoside Antimetabolite/Analog
Solubility : 10 mM in DMSO



Biological Activity

Ribonucleotide reductase inhibitor NSAH is a nonnucleoside, competitive, small-molecule inhibitor of human **ribonucleotide reductase** (hRR) that binds to the large subunit hRRM1 at the catalytic site (C-site) with K_d of 37.4 μM, IC₅₀ of 32 μM.

NSAH has twofold IC₅₀ of gemcitabine for growth inhibition of multiple cancer cell lines, while demonstrating little cytotoxicity against normal mobilized peripheral blood progenitor cells.

NSAH depresses dGTP and dATP levels in the dNTP pool causing S-phase arrest, providing evidence for RR inhibition in cells.

References

Ahmad MF, et al. *Proc Natl Acad Sci U S A*. 2017 Jul 17. pii: 201620220.

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

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