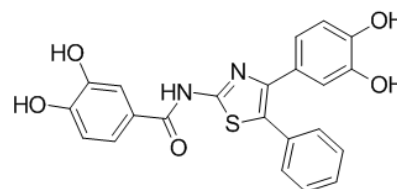


Product Name : COH29
Cat. No. : PC-45751
CAS No. : 1190932-38-7
Molecular Formula : C₂₂H₁₆N₂O₅S
Molecular Weight : 420.4378
Target : DNA/RNA Synthesis
Solubility : DMSO: ≥ 31 mg/mL



Biological Activity

COH29 is a small-molecule inhibitor of **ribonucleotide reductase** (RNR) that binds to RRM2, interfering with RRM1-RRM2 interactions with IC₅₀ of 16 uM.

COH29 overcomes hydroxyurea and gemcitabine resistance in cancer cells, effectively inhibits proliferation of most cell lines in the NCI 60 human cancer panel.

COH29 inhibits nonhomologous end joining (NHEJ) efficiency in HCC1937 cells.

COH29 reduced tumor growth in mouse xenograft models of human cancer.

References

Zhou B, et al. **Cancer Res.** 2013 Nov 1;73(21):6484-93.

Chen MC, et al. **Mol Pharmacol.** 2015 Jun;87(6):996-1005.

Zhang H, et al. **BMC Cancer.** 2014 Sep 11;14:664.

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

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