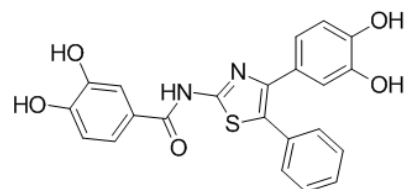


Product Name : COH-29
Cat. No. : PC-45751
CAS No. : 1190932-38-7
Molecular Formula : C₂₂H₁₆N₂O₅S
Molecular Weight : 420.4378
Target : DNA/RNA Synthesis
Solubility : DMSO: ≥ 31 mg/mL



Biological Activity

A small-molecule inhibitor of **ribonucleotide reductase** (RNR) that binds to RRM2, interfering with RRM1-RRM2 interactions with IC₅₀ of 16 μM; overcomes hydroxyurea and gemcitabine resistance in cancer cells, effectively inhibits proliferation of most cell lines in the NCI 60 human cancer panel; inhibits nonhomologous end joining (NHEJ) efficiency in HCC1937 cells; 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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