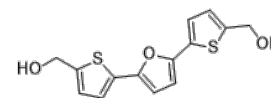


Product Name : RITA
Cat. No. : PC-22936
CAS No. : 213261-59-7
Molecular Formula : C₁₄H₁₂O₃S₂
Molecular Weight : 292.37
Target : MDM2-p53
Solubility : 10 mM in DMSO



Biological Activity

RITA is a small molecule inhibitor of the protein-protein interaction between p53 and human double minute-2 (HDM-2), binds to p53 with an apparent K_d value of 1.5 nM and prevents the interaction between p53 and HDM-2.

RITA induces DNA damage and apoptosis in, as well as inhibits the growth of, A498, TK-10, ACHN, and UO-31 renal carcinoma cells (GI₅₀s = 0.017, 0.032, 22.76, and 41.71 μM, respectively).

RITA (10 mg/kg) reduces tumor volume in an HCT116 mouse xenograft model.

RITA (45 mg/kg) induces complete tumor regression in an A498 mouse xenograft model when administered at a dose of 45 mg/kg.

References

Chène, P, et al. Nat. Rev. Cancer 3, 102-109 (2003).

Issaeva, N., et al. Nat. Med. 10(12), 1321-1328 (2004).

Rivera, M.I., et al. Biochem. Pharmacol. 57(11), 1283-1295 (1999).

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

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