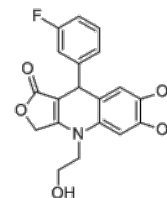


Product Name : SU056
Cat. No. : PC-72492
CAS No. : 2376580-08-2
Molecular Formula : C₂₀H₁₆FNO₅
Molecular Weight : 369.348
Target : Other Targets
Solubility : 10 mM in DMSO



Biological Activity

SU056 (SU-056) is a specific small molecule that potently inhibits tumor growth and progression via **Y box binding protein 1 (YBX1, YB1)** inhibition.

SU056 inhibits cell proliferation, resistance to apoptosis in ovarian cancer (OC) cells, and arrests in the G1 phase.

SU056 (1-10 uM) strongly inhibits YB-1 expression, SU056 broadly inhibits YB-1 across different OC cell lines with IC₅₀ of 5.6, 3.2, 3.7 uM against OVCAR4, OVCAR8, and SKOV3 cells.

SU056 treatment leads to enrichment of proteins associated with apoptosis and RNA degradation pathways while downregulating spliceosome pathway.

SU056 independently restrains OC progression and exerts a synergistic effect with paclitaxel to further reduce disease progression with no observable liver toxicity.

SU056 showed delayed disease progression via inhibition of drug efflux and multidrug resistance 1, and significantly lower neurotoxicity as compared with etoposide.

References

Dhanir Tailor, et al. *Cell Chem Biol.* 2021 Aug 19;28(8):1206-1220.e6.

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

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