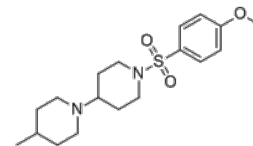


Product Name : TASIN-1
Cat. No. : PC-72962
CAS No. : 792927-06-1
Molecular Formula : C₁₈H₂₈N₂O₃S
Molecular Weight : 352.493
Target : Other Targets
Solubility : 10 mM in DMSO



Biological Activity

TASIN-1 (Truncated APC selective inhibitor-1) is a small molecule that specifically kills cells with **APC truncations** but spares normal and cancer cells with wild-type APC, inhibits **emopamil-binding protein (EBP)**.

TASIN-1 exhibited potent and selective toxicity toward DLD1 cells (IC₅₀ = 70 nM) but not toward HCT116 cells (IC₅₀ > 50 μM).

TASIN-1 decreased the endogenous cholesterol biosynthesis rate in APC-truncated HT29 and DLD1 cells but not in APC WT HCT116 and RKO cells, TASIN-1 exerts its cytotoxicity through inhibition of cholesterol biosynthesis.

TASIN-1 inhibits emopamil-binding protein (EBP) or 24-dehydrocholesterol reductase (DHCR24).

References

Zhang L, et al. *Sci Transl Med*. 2016 Oct 19;8(361):361ra140.

Zhang L, et al. *Mol Cancer Ther*. 2018 May;17(5):943-951.

Wang W, et al. *J Med Chem*. 2019 May 23;62(10):5217-5241.

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

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