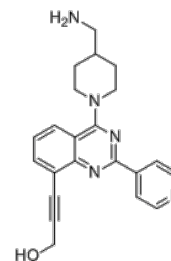


Product Name : VT02956
Cat. No. : PC-38110
CAS No. : 2999763-09-4
Molecular Formula : C₂₂H₂₃N₅O
Molecular Weight : 373.46
Target : Hippo
Solubility : 10 mM in DMSO



Biological Activity

VT02956 is a potent, specific inhibitor of **Hippo pathway kinase LATS** with IC₅₀ of 0.76 nM (LATS1) and 0.52 nM (LATS2), respectively.

VT02956 reduces YAP/TAZ phosphorylation in both dose- and time-dependent manner with IC₅₀ of 0.16 μM and 0.43 μM in HEK293A cells and 4T1 cells, respectively.

VT02956 suppresses ESR1 transcription, dramatically reduces ERα and its target genes TFF1 and GREB1.

VT02956 targets the LATS-YAP/TAZ-ERα axis to inhibit ER+ tumours cell growth, inhibits the proliferation of MCF-7 and T47D cells.

VT02956 inhibits the growth of T47D cells with hormone therapy resistant ESR1 mutation (ERα Y537S or D538G), enhances the anti-tumour effect of palbociclib in ER+ breast cancer cells.

References

Shenghong Ma, et al. *Nat Commun.* 2022 Feb 25;13(1):1061.

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

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