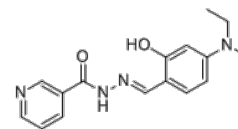


Product Name : AAA237
Cat. No. : PC-21767
CAS No. : 1375060-02-8
Molecular Formula : C₁₇H₂₀N₄O₂
Molecular Weight : 312.37
Target : E3 Ubiquitin Ligase
Solubility : 10 mM in DMSO



Biological Activity

AAA-237 (AAA237) is a small molecule Skp2 E3 ligase inhibitor, binds to Skp2 protein (KD=28.77 uM) and inhibits the degradation of Skp2 substrates, inhibits the proliferation of the NSCLC cells.

AAA-237 has no significant effect on the mRNA expression of Skp2 but inhibits the protein expression of Skp2 in NSCLC cells in a time-dependent manner.

AAA-237 increases the expression levels of p21Cip1 and p27Kip1 in A549 and H1299 cells.

AAA-237 inhibits the proliferation of A549 and H1299 cells in a dose- and time-dependent manner, inhibits colony formation of A549 and H1299 cells.

AAA-237 arrests the cell cycle at the G₀/G₁ checkpoint by regulating the Skp2-Cip/Kip and PI3K/Akt-FOXO1 signaling pathways.

AAA-237 (15 or 45 mg/kg) suppresses growth of xenograft tumors by inducing apoptosis and senescence in lung cancer A549 xenograft mice model.

References

Liu J, et al. Pharmacol Res. 2022 Jul;181:106259.

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

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