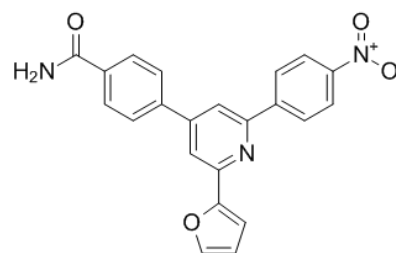


Product Name : KJ-Pyr-9
Cat. No. : PC-45695
CAS No. : 581073-80-5
Molecular Formula : C₂₂H₁₅N₃O₄
Molecular Weight : 385.3722
Target : c-Myc
Solubility : 10 mM in DMSO



Biological Activity

KJ-Pyr-9 is a specific small-molecule inhibitor of **MYC**, inhibits **MYC-MAX** interaction, directly binds to MYC (K_d=6.5 nM) as well as to the MYC-MAX heterodimer (K_d=13.4 nM), interferes with its transcriptional and oncogenic activities.

KJ-Pyr-9 displays significantly higher affinity for MYC-MAX over MAX-MAX dimers.

KJ-Pyr-9 strongly inhibits oncogenic activity of N-MYC and ATG-MYC, but not v-Src, v-Jun, and the H1047R mutant of phosphatidylinositol 3-kinase (PI3K).

KJ-Pyr-9 inhibits the proliferation of Burkitt lymphoma P493-6 cells with constitutively high expression of c-MYC with IC₅₀ of 1-2.5 μM.

KJ-Pyr-9 (10 mg/kg, i.p. injection for 31 d) inhibits tumor growth of a xenograft of MDA-MB-231 cells, with no effect on the body weight of the animals, increases MYC suppression target NDRG1.

References

Hart JR, et al. *Proc Natl Acad Sci U S A*. 2014 Aug 26;111(34):12556-61.

Raffener P, et al. *Oncotarget*. 2014 Oct 15;5(19):8869-78.

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

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