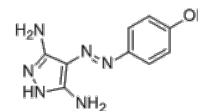


Product Name : CAN-508
Cat. No. : PC-62864
CAS No. : 140651-18-9
Molecular Formula : C₉H₁₀N₆O
Molecular Weight : 218.22
Target : Cyclin-dependent Kinase (CDK)
Solubility : 10 mM in DMSO



Biological Activity

CAN-508 is a potent, selective **CDK9** inhibitor with IC₅₀ of 0.35 μM (CDK9/cyclin T1), displays >35 fold selectivity over CDK1/2/4/7 (IC₅₀=13.5-70 μM); reduces the frequency of S-phase cells of the cancer cell line HT-29 in antiproliferation assays; decreases phosphorylation of the retinoblastoma protein and the C-terminal domain of RNA polymerase II, inhibits mRNA synthesis, and induces the tumor suppressor protein p53.

References

- Kryštof V, et al. *J Med Chem*. 2006 Nov 2;49(22):6500-9.
Kryštof V, et al. *Eur J Med Chem*. 2011 Sep;46(9):4289-94.
Tong Z, et al. *Oncotarget*. 2017 Apr 25;8(17):28696-28710.

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

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