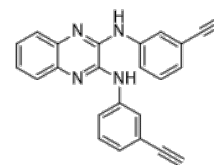


Product Name : CIP2A inhibitor TD52
Cat. No. : PC-23570
CAS No. : 1798328-24-1
Molecular Formula : C₂₄H₁₆N₄
Molecular Weight : 360.42
Target : Protein Phosphatase/PTP
Solubility : 10 mM in DMSO



Biological Activity

TD52 is a small molecule inhibitor of cancerous inhibitor of protein phosphatase 2A (CIP2A), downregulates CIP2A and p-Akt, reactivates protein phosphatase 2A.

TD52 causes greater reduction in cell viability than erlotinib in all the HCC cell lines tested including HA22T (IC₅₀=0.9 μmol/l), Hep3B (IC₅₀=0.9 μmol/l), PLC5 (IC₅₀=0.8 μmol/l) and Sk-Hep1 (IC₅₀=1.2 μmol/l), which is independent of EGFR kinase inhibition.

TD52 downregulates the protein expression of CIP2A and p-Akt in a dose- and time-dependent manner, with no effect on the expression level of PP2A-related subunits, PP2A-A, PP2A-B55 and PP2A-C.

TD52 downregulates transcription of CIP2A via interfering Elk-1 function.

TD52 (10 mg/kg/day) exhibits in vivo antitumor effects on a PLC5 xenograft tumor model.

References

Yu HC, et al. Cell Death Dis. 2014 Jul 31;5(7):e1359.

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

E-mail: tech@probechem.com