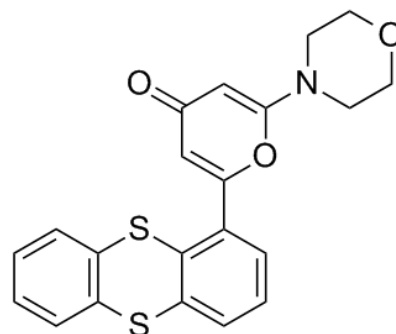


Product Name : KU-55933
Cat. No. : PC-42831
CAS No. : 587871-26-9
Molecular Formula : C₂₁H₁₇NO₃S₂
Molecular Weight : 395.4946
Target : ATM/ATR
Solubility : DMSO: 80 mg/mL (Need ultrasonic)



Biological Activity

KU-55933 (KU55933) is a potent, specific, ATP-competitive inhibitor of **ATM** with Ki/IC₅₀ of 2.2/13 nM, >100-fold selectivity against other members of the PIKK family kinases.

KU-55933 inhibits ATM-dependent p53 Ser15 phosphorylation in U2OS osteosarcoma cells with IC₅₀ of 0.3 μM.

KU-55933 sensitizes the cytotoxic effects of ionizing radiation and to the DNA double-strand break-inducing chemotherapeutic agents, etoposide, doxorubicin, and camptothecin.

KU-55933 also suppresses the replication of both wild-type and drug-resistant HIV-1 by sensitizing cells to retrovirus-induced cell death.

References

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Lau A, et al. *Nat Cell Biol.* 2005 May;7(5):493-500.

Soriani A, et al. *Blood.* 2009 Apr 9;113(15):3503-11.

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

E-mail: tech@probechem.com