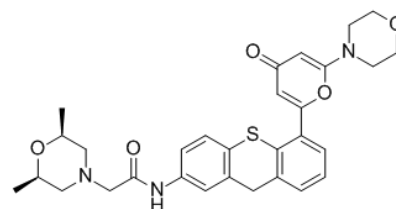


Product Name : KU-60019
Cat. No. : PC-42876
CAS No. : 925701-46-8
Molecular Formula : C₃₀H₃₃N₃O₅S
Molecular Weight : 547.6651
Target : ATM/ATR
Solubility : DMSO: ≥ 30 mg/mL



Biological Activity

KU-60019 is an improved analogue of KU-55933, and is a potent, specific inhibitor of **ATM kinase** with IC₅₀ of 6.3 nM, 270- and 1,600-fold selectivity over DNA-PKcs and ATR.

KU-60019 blocks radiation-induced phosphorylation of key ATM targets in human glioma cells, which is 10-fold more effective than KU-55933.

KU-60019 reduces basal S473 AKT phosphorylation and inhibits glioma cell migration and invasion in vitro.

KU-60019 preferentially sensitizes p53-mutant glioma to ionizing radiation in orthotopic xenograft models of GBM.

References

Golding SE, et al. *Mol Cancer Ther.* 2009 Oct;8(10):2894-902.

Gamper AM, et al. *J Biol Chem.* 2012 Apr 6;287(15):12445-54.

Biddlestone-Thorpe L, et al. *Clin Cancer Res.* 2013 Jun 15;19(12):3189-200.

Golding SE, et al. *Cell Cycle.* 2012 Mar 15;11(6):1167-73.

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

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