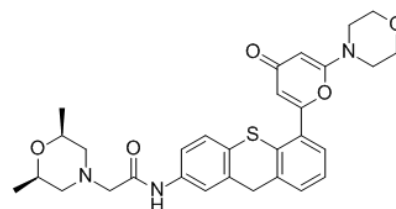


**Product Name** : KU-60019  
**Cat. No.** : PC-42876  
**CAS No.** : 925701-46-8  
**Molecular Formula** : C<sub>30</sub>H<sub>33</sub>N<sub>3</sub>O<sub>5</sub>S  
**Molecular Weight** : 547.6651  
**Target** : ATM/ATR  
**Solubility** : DMSO: ≥ 30 mg/mL



## Biological Activity

KU-60019 (KU60019) is an improved analogue of KU-55933, and is a potent, specific inhibitor of **ATM kinase** with IC<sub>50</sub> 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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