MOLNOVA
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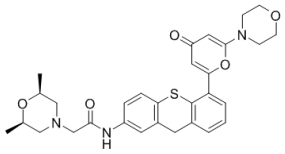
Datasheet (Version 1.0)

Product Name	:	KU-60019
Synonyms	:	KU60019;KU 60019
Cat No.	:	M16633
CAS Number	:	925701-46-8
Molecular Formula	:	C30H33N3O5S
Formula Weight	:	547.67
Chemical Name	:	4-Morpholineacetamide, 2,6-dimethyl-N-[5-[6-(4-morpholinyl)-4-oxo-4H-pyran-2-yl]-9H-thioxanthen-2-yl]-, (2R,6S)-rel-
Description	:	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; blocks radiation-induced phosphorylation of key ATM targets in human glioma cells, which is 10-fold more effective than KU-55933, reduces basal S473 AKT phosphorylation and inhibits glioma cell migration and invasion in vitro; preferentially sensitizes p53-mutant glioma to ionizing radiation in orthotopic xenograft models of GBM.
Pathway	:	Cell Cycle/DNA Damage
Target	:	ATM/ATR
Receptor	:	ATM/ATR
Solubility	:	DMSO: ≥ 30 mg/mL
SMILES	:	CC1CN(CC(O1)C)CC(=O)NC2=CC3=C(C=C2)SC4=C(C3)C=CC=C4C5=CC(=O)C=C(O5)N6CCOCC6
Storage	:	(-20℃)
Stability	:	≥ 2 years
Reference	:	



1. Golding SE, et al. Mol Cancer Ther. 2009 Oct;8(10):2894-902.| 2. Gamper AM, et al. J Biol Chem. 2012 Apr 6;287(15):12445-54.| 3. Biddlestone-Thorpe L, et al. Clin Cancer Res. 2013 Jun 15;19(12):3189-200. | 4. Golding SE, et al. Cell Cycle. 2012 Mar 15;11(6):1167-73.