

KU60019

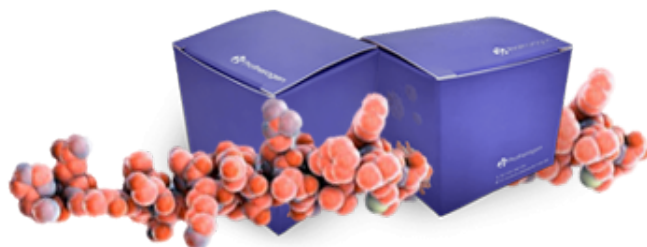
Cat. No.:	OB0225WX-2341
Appearance:	Solid
Purity:	≥99%
Identity:	Confirmed by NMR, ORP, CSFC, and LC-MS.
Size:	1 mg; 5 mg; 10 mg; 25 mg; 50 mg

This product is for research use only and is not intended for diagnostic use.

Product Overview

Description	KU-60019 acts as a powerful and reversible antagonist of ATM kinase, featuring a n IC50 of 6.3 nM and exhibiting exceptional selectivity when screened against a panel of 229 other kinases.
Synonym	KU-60019; KU 60019; 925701-49-1; ku60019; 2-[(2S,6R)-2,6-dimethylmorpholin-4-yl]-N-[5-(6-morpholin-4-yl-4-oxopyran-2-yl)-9H-thioxanthen-2-yl]acetamide; 2-[(2R,6S)-2,6-dimethylmorpholino)-N-(5-(6-morpholino-4-oxo-4H-pyran-2-yl)-9H-thioxanthen-2-yl)acetamide; 4-Morpholineacetamide, 2,6-dimethyl-N-(5-(6-(4-morpholinyl)-4-oxo-4H-pyran-2-yl)-9H-thioxanthen-2-yl)-, (2R,6S)-; (2R,6S-rel)-2,6-Dimethyl-N-[5-[6-(4-morpholinyl)-4-oxo-4H-pyran-2-yl]-9H-thioxanthen-2-yl]-4-morpholineacetamide; 2-[(2S,6R)-2,6-dimethylmorpholino)-N-(5-(6-morpholino-4-oxo-4H-pyran-2-yl)-9H-thioxanthen-2-yl)acetamide; 2-[(2S,6R)-2,6-dimethylmorpholino)-N-(5-(6-morpholino-4-oxo-4H-pyran-2-yl)-9H-thioxanthen-2-yl)acetamide.; 2-[(2R,6S)-2,6-Dimethylmorpholin-4-yl]-N-[5-[6-(morpholin-4-yl)-4-oxo-4H-pyran-2-yl]-9H-thioxanthen-2-yl]acetamide; 2-[(2S,6R)-2,6-dimethylmorpholin-4-yl]-N-(5-(6-morpholin-4-yl)-4-oxopyran-2-yl)-9H-thioxanthen-2-yl)acetamide; rel-(2R,6S)-2,6-Dimethyl-N-[5-[6-(4-morpholinyl)-4-oxo-4H-pyran-2-yl]-9H-thioxanthen-2-yl]-4-morpholineacetamide
CAS No.	925701-49-1
Compound CID	15953870
Formula	C ₃₀ H ₃₃ N ₃ O ₅ S
Formula Weight	547.67

Specification



Targets&IC50	ATM: 6.3 nM (cell free)
Relative Density	1.314 g/cm ³
IUPAC Name	2-[(2S,6R)-2,6-Dimethylmorpholin-4-yl]-N-[5-(6-morpholin-4-yl-4-oxopyran-2-yl)-9H-thioxanthen-2-yl]acetamide
InChI	InChI=1S/C30H33N3O5S/c1-19-16-32(17-20(2)37-19)18-28(35)31-23-6-7-27-22(13-23)12-21-4-3-5-25(30(21)39-27)26-14-24(34)15-29(38-26)33-8-10-36-11-9-33/h3-7,13-15,19-20H,8-12,16-18H2,1-2H3,(H,31,35)/t19-,20+
InChI Key	SCELLOWTHJGVIC-BGYRXZFFSA-N
SMILES string	<chem>C[C@@H]1CN(C[C@@H](O1)C)CC(=O)NC2=CC3=C(C=C2)SC4=C(C3)C=CC=C4C5=CC(=O)C=C(O5)N6C(COCC6</chem>
Stability	3 years in powder form.
Storage	Storage at -20°C.
Applications	KU60019 is used in signal transduction research to investigate the role of ATM-m ediated phosphorylation in cellular senescence and the maintenance of genomic integrity following oxidative damage.

Library Information

Target	ATM/ATR
Receptor	ATM
Pathways	DNA damage/DNA repair; PI3K/Akt/mTOR signaling
Plate Number	AOCL-31
Plate Location	a3
Empty Location	a1-h1; a12-h12
Container	96-well plate
Formulation	10mM DMSO
DMSO Max Solubility	50 mg/mL; 91.3 mM
Water Max Solubility	<1 mg/mL (insoluble or slightly soluble)
Ethanol Max Solubility	<1 mg/mL (insoluble or slightly soluble)
ALogP	3.818
HBA_Count	5
HBD_Count	1
Rotatable Bond	5