

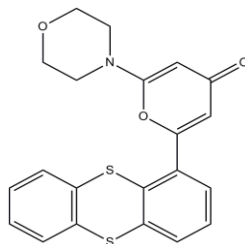
ATM Kinase Inhibitor, KU-55933

ALTERNATE NAME: KU-55933; 2-Morpholin-4-yl-6-thianthren-1-yl-pyran-4-one

CATALOG #: 1685-5

AMOUNT: 5 mg

STRUCTURE:



MOLECULAR FORMULA: C₂₁H₁₇NO₃S₂

MOLECULAR WEIGHT: 395.49

CAS NUMBER: 587871-26-9

APPEARANCE: White solid

SOLUBILITY: DMSO (100 mM) and Ethanol (50 mM)

PURITY: >97%

STORAGE: Store at -20°C. Protect from air and light

DESCRIPTION: A potent, selective and ATP-competitive inhibitor of ATM Kinase (K_i = 2.2 nM; IC₅₀ = 13 nM). Inhibits DNA-PK, mTOR, PI 3-K, PI 4-K, and ATR at much higher concentrations (IC₅₀ = 2500, 9300, 16600, >100000 and >100000 nM, respectively).

REFERENCES:
 1. Crescenzi, E., *et al.* (2008). *Clin. Cancer Res.* **14**, 1877
 2. Eaton, J.S., *et al.* (2007). *J. Clin. Invest.* **117**, 2723.
 3. Hickson, I., *et al.* (2004). *Cancer Res.* **64**, 9152.

HANDLING: Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.

FOR RESEARCH USE ONLY! Not to be used in humans.

RELATED PRODUCTS:

Apoptosis Detection Kits & Reagents

- Annexin V Kits & Bulk Reagents
- Caspase Assay Kits & Reagents
- Mitochondrial Apoptosis Kits & Reagents
- Nuclear Apoptosis Kits & Reagents
- Apoptosis Inducers and Set
- Apoptosis siRNA Vectors

Cell Fractionation System

- Mitochondria/Cytosol Fractionation Kit
- Nuclear/Cytosol Fractionation Kit
- Membrane Protein Extraction Kit
- Cytosol/Particulate Rapid Separation Kit
- Mammalian Cell Extraction Kit
- FractionPREP Fractionation System

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- Senescence Detection Kit
- High Throughput Apoptosis/Cell Viability Assay Kits
- LDH-Cytotoxicity Assay Kit
- Bioluminescence Cytotoxicity Assay Kit
- Live/Dead Cell Staining Kit

Cell Damage & Repair

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- HAT Colorimetric Assay Kit & Reagents
- DNA Damage Quantification Kit
- Glutathione & Nitric Oxide Fluorometric & Colorimetric Assay Kits

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