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: C_{21}H_{17}NO_{3}S_{2}

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; IC_{50} = 13 nM). Inhibits DNA-PK, mTOR, PI 3-K, PI 4-K, and ATR at much higher concentrations (IC_{50} = 2500, 9300, 16600, >100000 and >100000 nM, respectively).


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

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

Cell Proliferation & Senescence
- Quick Cell Proliferation Assay Kit
- 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
- HDAC Fluorometric & Colorimetric Assays & Drug Discovery Kits
- HAT Colorimetric Assay Kit & Reagents
- DNA Damage Quantification Kit
- Glutathione & Nitric Oxide Fluorometric & Colorimetric Assay Kits

Signal Transduction
- cAMP & cGMP Assay Kits
- Akt & JNK Activity Assay Kits
- Beta-Secretase Activity Assay Kit

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- Recombinant Adiponectin, Survivin, & Leptin
- CETP Activity Assay & Drug Discovery Kits
- PLTP Activity Assay & Drug Discovery Kits
- Total Cholesterol Quantification Kit

Molecular Biology & Reporter Assays
- siRNA Vectors
- Cloning Insert Quick Screening Kit
- Mitochondrial & Genomic DNA Isolation Kits
- 5 Minutes DNA Ligation Kit
- 20 Minutes Gel Staining/Destaining Kit
- β-Galactosidase Staining Kit & Luciferase Reporter Assay Kit

Growth Factors and Cytokines
- Monoclonal and Polyclonal Antibodies

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