

KU-55933, ATM Kinase inhibitor

 Catalog
 Unit

 TBI1518-5MG
 5 mg

 TBI1518-25MG
 25 mg

Product Details

Formal Name: 2-(4-Morpholinyl)-6-(1-thiamthrenyl)-4H-pyran-4-one

Molecular Formula: C₂₁H₁₇NO₃S₂

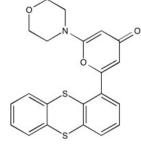
Formula Weight: 395.50 **CAS Number:** 587871-26-9

Purity: >98%

Formulation: powder

Solubility: Soluble in DMSO (up to 40 mg/ml) or in Ethanol (up to 20 mg/ml)

Storage: -20° C **Stability:** ≥ 2 years.



Applications

ATM Kinase inhibitor

Functions

Potent and selective ATM kinase inhibitor IC50s= 13, 2500, 9300, 16600, >100000 and >100000 nM for ATM, DNA-PK, mTOR, PI 3-kinase, PI 4-K and ATR respectively. Decreases viability of MCF-7, A549 and HCT116 cells and decreases p21CIP1 levels in vitro. Disruption of ATM signaling in primary A-T fibroblasts leads to dysregulation of ribonucleotide reductase and increase resistance to inhibitors of mitochondrial respiration and translation. Sensitizes radio-resistant cancer cells. Provides neuroprotection against H2O2-induced cell damage.

Application Procedures

First dissolved in DMSO (up to 40 mg/ml) or in Ethanol (up to 20 mg/ml), then diluted to aqueous buffer. Solutions in DMSO or ethanol may be stored at -20° for up to 1 month.

For research use only.