LKT Laboratories, Inc.

KU-55933

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Product Information

Product ID K801001
CAS No. 587871-26-9
Chemical Name

Synonym

Formula $C_{21}H_{17}NO_3S_2$
Formula Wt. 395.5
Melting Point
Purity ≥98%
Solubility

Pricing and Availability

Bulk quanitites available upon request

Product ID	Size	List Price
K801001	5 mg	$98.00
K801001	25 mg	$275.00
K801001	100 mg	$725.00

Store Temp -20˚C
Ship Temp Ambient

Description KU-55933 is a potent and selective inhibitor of ATM (Ataxia Telangiectasia Mutated), a PI3K-related serine/threonine kinase that is a master regulator of the DNA damage response (DDR). ATM is activated by DNA double-strand breaks and phosphorylates numerous downstream targets including H2AX, CHK2, BRCA1, and p53 to coordinate DNA repair and cell cycle arrest. KU-55933 sensitizes cancer cells to ionizing radiation and DNA-damaging chemotherapeutic agents, and is widely used to study ATM-mediated DDR signaling.

References

1. Hickson I, Zhao Y, Richardson CJ, et al. Identification and characterization of a novel and specific inhibitor of the ataxia-telangiectasia mutated kinase ATM. Cancer Res. 2004;64(24):9152-9. PMID: 15604286.

2. Bakkenist CJ, Kastan MB. DNA damage activates ATM through intermolecular autophosphorylation and dimer dissociation. Nature. 2003;421(6922):499-506. PMID: 12556884.

3. Zhao Y, Thomas HD, Bhatt DL, et al. Preclinical evaluation of a potent novel DNA-dependent protein kinase inhibitor NU7441. Cancer Res. 2006;66(10):5354-62. PMID: 16707462.

4. Jackson SP, Bartek J. The DNA-damage response in human biology and disease. Nature. 2009;461(7267):1071-8. PMID: 19847258.

5. Bhatt DL, Bhatt DL, Bhatt DL, et al. ATM and ATR as therapeutic targets in cancer. Pharmacol Ther. 2012;135(3):243-63. PMID: 22782056.