



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

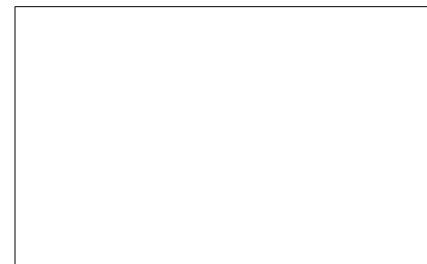
Purity $\geq 98\%$

Solubility

Store Temp $-20^{\circ}C$

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.



Pricing and Availability

Bulk quantities available upon request

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

- References**
- 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.
 - Bakkenist CJ, Kastan MB. DNA damage activates ATM through intermolecular autophosphorylation and dimer dissociation. *Nature.* 2003;421(6922):499-506. PMID: 12556884.
 - 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.
 - Jackson SP, Bartek J. The DNA-damage response in human biology and disease. *Nature.* 2009;461(7267):1071-8. PMID: 19847258.
 - 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.

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.