



LKT Laboratories, Inc.

MLN8237

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## Product Information

Product ID M4652

CAS No. 1028486-01-2

### Chemical Name

Synonym Alisertib

Formula  $C_{27}H_{20}ClFN_4O_4$

Formula Wt. 518.92

### Melting Point

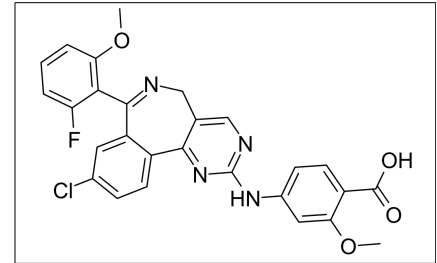
Purity  $\geq 98\%$

Solubility DMSO 27 mg/mL (52.03 mM)  
Water Insoluble  
Ethanol Insoluble

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

Ship Temp Ambient

**Description** MLN8237 inhibits aurora kinase A (AurA) preventing mitotic spindle formation and proper completion of mitosis. MLN8237 exhibits anticancer chemotherapeutic activity and is currently in clinical trials as a potential treatment for multiple myeloma, non-Hodgkin's lymphoma, and chronic lymphocytic leukemia (CLL). In bladder cancer cells, MLN8237 induces cell cycle arrest, aneuploidy, and apoptosis; in animal models of bladder cancer, this compound inhibits tumor growth. Additionally, MLN8237 inhibits tumor growth of neuroblastomas in vivo as well. In HUVECs, MLN8237 decreases tubule formation and inhibits VEGF secretion, suggesting potential anti-angiogenic activity.



**Bulk quantities available upon request**

Product ID	Size
M4652	1 mg
M4652	5 mg
M4652	10 mg

**References** Romain C, Paul P, Kim KW, et al. Targeting Aurora kinase-A downregulates cell proliferation and angiogenesis in neuroblastoma. *J Pediatr Surg.* 2014 Jan;49(1):159-65. PMID: 24439602.

Kelly KR, Shea TC, Goy A, et al. Phase I study of MLN8237-investigational Aurora A kinase inhibitor-in relapsed/refractory multiple myeloma, Non-Hodgkin lymphoma and chronic lymphocytic leukemia. *Invest New Drugs.* 2013 Dec 20. [Epub ahead of print]. PMID: 24352795.

Zhou N, Singh K, Mir MC, et al. The investigational Aurora kinase A inhibitor MLN8237 induces defects in cell viability and cell-cycle progression in malignant bladder cancer cells in vitro and in vivo. *Clin Cancer Res.* 2013 Apr 1;19(7):1717-28. PMID: 23403633.

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