



LKT Laboratories, Inc.

INK128

Phone: 888-558-5227  
651-644-8424  
Fax: 888-558-7329  
Email: [getinfo@lctlabs.com](mailto:getinfo@lctlabs.com)  
Web: [lctlabs.com](http://lctlabs.com)

## Product Information

Product ID I5440

CAS No. 1224844-38-5

### Chemical Name

Synonym MLN-0128

Formula  $C_{15}H_{15}N_7O$

Formula Wt. 309.33

### Melting Point

Purity  $\geq 99\%$

Solubility DMSO 62 mg/mL (200.43  
mM)

Ethanol 2 mg/mL (6.46  
mM)

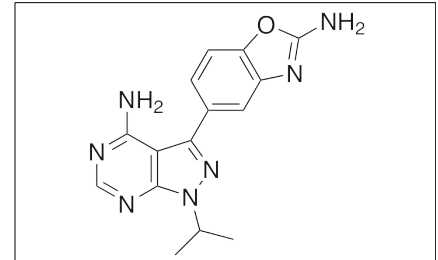
Water Insoluble

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

Ship Temp Ambient

### Description

INK-128 is an ATP-competitive inhibitor of mTOR, inhibiting both mTORC1 and mTORC2, protein complexes that modulate cell growth, cell survival, and cell migration. This compound displays anticancer chemotherapeutic and anti-metastatic activities in both in vitro and in vivo models. In vitro, INK-128 inhibits cell migration and adhesion, processes critical for the invasive nature of multiple myeloma; INK-128 also inhibits proliferation and decreases colony formation in an in vitro model of B-cell acute lymphoblastic leukemia. In vivo, INK-128 decreased metastases in an animal model of prostate cancer. This compound is currently in clinical trials as a potential treatment for multiple myeloma.



**Bulk quantities available upon request**

Product ID	Size
I5440	1 mg
I5440	5 mg
I5440	25 mg

**References** Janes MR, Vu C, Mallya S, et al. Efficacy of the investigational mTOR kinase inhibitor MLN0128/INK128 in models of B-cell acute lymphoblastic leukemia. *Leukemia*. 2013 Mar;27(3):586-94. PMID: 23090679.

Hsieh AC, Liu Y, Edlind MP, et al. The translational landscape of mTOR signalling steers cancer initiation and metastasis. *Nature*. 2012 Feb 22;485(7396):55-61. PMID: 22367541.

Maiso P, Liu Y, Morgan B, et al. Defining the role of TORC1/2 in multiple myeloma. *Blood*. 2011 Dec 22;118(26):6860-70. PMID: 22045983.

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