



LKT Laboratories, Inc.

INK128

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Product Information

Product ID I5440

CAS No. 1224844-38-5

Chemical Name

Synonym MLN-0128, Sapanisertib

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

Formula Wt. 309.33

Melting Point

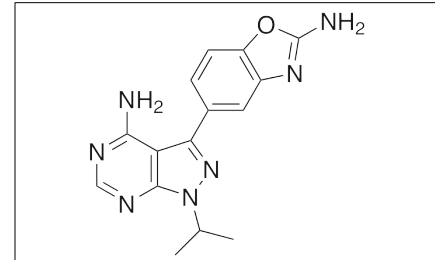
Purity $\geq 99\%$

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.



Pricing and Availability

Bulk quantities available upon request

Product ID	Size	List Price
I5440	1 mg	\$55.50
I5440	5 mg	\$104.20
I5440	25 mg	\$301.00

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.