LKT Laboratories, Inc.

NMS-1286937

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Product Information

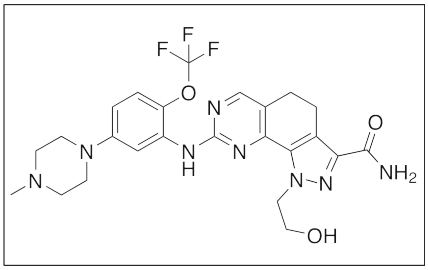
Product ID N5072
CAS No. 1034616-18-6
Chemical Name

Synonym NMS1286937, NMS-P937

Formula $C_{24}H_{27}F_3N_8O_3$
Formula Wt. 532.52
Melting Point
Purity ≥98%
Solubility

DMSO	42 mg/mL warmed (78.87 mM)
Ethanol	10 mg/mL warmed (18.77 mM)
Water	Insoluble

Store Temp -20°C
Ship Temp Ambient



Pricing and Availability

Bulk quanitites available upon request

Product ID	Size	List Price
N5072	1 mg	$136.00
N5072	5 mg	$217.20
N5072	10 mg	$329.60

Description NMS-1286937 is an inhibitor of polo-like kinase 1 (PLK1) that is currently in clinical trials as a potential treatment for various cancers; it exhibits anticancer chemotherapeutic activity. In osteosarcoma cells, NMS-1286937 induces cell cycle arrest and apoptosis and inhibits cell growth. In animal models of acute myelogenous leukemia (AML), this compound increases survival time and decreases tumor cell infiltration. Additionally, NMS-1286937 inhibits cell proliferation and induces apoptosis, cell cycle arrest, and tumor regression in cellular and animal models of colon cancer.

References

Sero V, Tavanti E, Vella S, et al. Targeting polo-like kinase 1 by NMS-P937 in osteosarcoma cell lines inhibits tumor cell growth and partially overcomes drug resistance. Invest New Drugs. 2014 Dec;32(6):1167-80. PMID: 25193492.

Casolaro A, Golay J, Albanese C, et al. The Polo-Like Kinase 1 (PLK1) inhibitor NMS-P937 is effective in a new model of disseminated primary CD56+ acute monoblastic leukaemia. PLoS One. 2013;8(3):e58424. PMID: 23520509.

Valsasina B, Beria I, Alli C, et al. NMS-P937, an orally available, specific small-molecule polo-like kinase 1 inhibitor with antitumor activity in solid and hematologic malignancies. Mol Cancer Ther. 2012 Apr;11(4):1006-16. PMID: 22319201.

Beria I, Bossi RT, Brasca MG, et al. NMS-P937, a 4,5-dihydro-1H-pyrazolo[4,3-h]quinazoline derivative as potent and selective Polo-like kinase 1 inhibitor. Bioorg Med Chem Lett. 2011 May 15;21(10):2969-74. PMID: 21470862.