



LKT Laboratories, Inc.

BKM120

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Product Information

Product ID B4248

CAS No. 944396-07-0

Chemical Name

Synonym Buparlisib, NVP-BKM120

Formula C₁₈H₂₁F₃N₆O₂

Formula Wt. 410.39

Melting Point

Purity ≥98%

Solubility DMSO 82 mg/mL (199.8 mM)

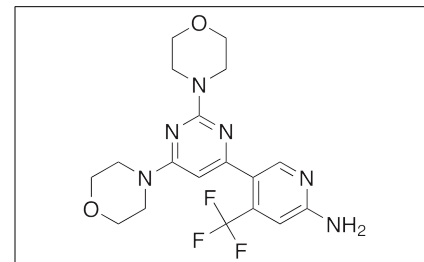
Ethanol 2 mg/mL (4.87 mM)

Water Insoluble

Store Temp 4°C

Ship Temp Ambient

Description BKM120 is an inhibitor of PI3K that is currently in clinical trials as a potential treatment for brain metastases of HER2+ breast cancer and other solid tumors. BKM120 exhibits anticancer chemotherapeutic and anti-metastatic activities, inducing G2/M phase cell cycle arrest, polyploidy, and apoptosis in glioblastoma cells. Additionally, BKM120 decreases levels of Mcl-1 and enhances TRAIL-dependent apoptosis in lung cancer cells. BKM120 also binds tubulin, inhibiting microtubule polymerization. This compound prevents invasion and epithelial-to-mesenchymal transition (EMT) in cellular and animal models of squamous cell lung cancer.



Bulk quantities available upon request

Product ID	Size
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B4248	1 mg
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B4248	5 mg
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References Bonelli MA, Cavazzoni A, Sacconi F, et al. Inhibition of PI3K pathway reduces invasiveness and epithelial-to-mesenchymal transition in squamous lung cancer cell lines harboring PIK3CA gene alterations. *Mol Cancer Ther.* 2015 May 26. [Epub ahead of print]. PMID: 26013318.

Wachsberger PR, Lawrence YR, Liu Y, et al. Hsp90 inhibition enhances PI-3 kinase inhibition and radiosensitivity in glioblastoma. *J Cancer Res Clin Oncol.* 2014 Feb 6. [Epub ahead of print]. PMID: 24500492.

Ando Y, Inada-Inoue M, Mitsuma A, et al. Phase I dose-escalation study of buparlisib (BKM120), an oral pan-class I PI3K inhibitor, in Japanese patients with advanced solid tumors. *Cancer Sci.* 2014 Jan 10. [Epub ahead of print]. PMID: 24405565.

Ren H, Zhao L, Li Y, et al. The PI3 kinase inhibitor NVP-BKM120 induces GSK3/FBXW7-dependent Mcl-1 degradation, contributing to induction of apoptosis and enhancement of TRAIL-induced apoptosis. *Cancer Lett.* 2013 Sep 28;338(2):229-38. PMID: 23562472.

Brachmann SM, Kleylein-Sohn J, Gaulis S, et al. Characterization of the mechanism of action of the pan class I PI3K inhibitor NVP-BKM120 across a broad range of concentrations. *Mol Cancer Ther.* 2012 Aug;11(8):1747-57. PMID: 22653967.

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