



LKT Laboratories, Inc.

BEZ235

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Product Information

Product ID B1996

CAS No. 915019-65-7

Chemical Name

Synonym NVP-BEZ235, Dactolisib

Formula $C_{30}H_{23}N_5O$

Formula Wt. 469.54

Melting Point

Purity $\geq 98\%$

Solubility DMF 18 mg/mL warmed
(38.33 mM)

DMSO 0.01 mg/mL (0.02
mM)

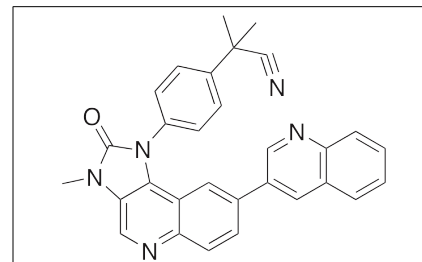
Water Insoluble

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

Ship Temp Ambient

Description

BEZ235 inhibits PI3K and mTORC1/2, exhibiting anticancer chemotherapeutic activity. In nasopharyngeal cancer cells, BEZ235 induces G1 phase cell cycle arrest and apoptosis; in similar animal models of nasopharyngeal or cholangiocarcinoma, this compound inhibits tumor growth. BEZ235 also induces apoptosis in hepatocellular carcinoma cells, also potentially inducing autophagy.



Bulk quantities available upon request

Product ID Size

B1996 10 mg

B1996 25 mg

B1996 100 mg

References Ma BB, Lui VW, Hui CW, et al. Preclinical evaluation of the mTOR-PI3K inhibitor BEZ235 in nasopharyngeal cancer models. *Cancer Lett.* 2014 Feb 1;343(1):24-32. PMID: 24041865.

Yothaisong S, Dokduang H, Techasen A, et al. Increased activation of PI3K/AKT signaling pathway is associated with cholangiocarcinoma metastasis and PI3K/mTOR inhibition presents a possible therapeutic strategy. *Tumour Biol.* 2013 Dec;34(6):3637-48. PMID: 23832540.

Chang Z, Shi G, Jin J, et al. Dual PI3K/mTOR inhibitor NVP-BEZ235-induced apoptosis of hepatocellular carcinoma cell lines is enhanced by inhibitors of autophagy. *Int J Mol Med.* 2013 Jun;31(6):1449-56. PMID: 23588698.

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