



LKT Laboratories, Inc.

BYL719

Phone: 888-558-5227

651-644-8424

Fax: 888-558-7329

Email: getinfo@lktlabs.com

Web: lktlabs.com

Product Information

Product ID B9700

CAS No. 1217486-61-7

Chemical Name (2S)-1-N-[4-methyl-5-[2-(1,1,1-trifluoro-2-methylpropan-2-yl)pyridin-4-yl]-1,3-thiazol-2-yl]pyrrolidine-1,2-dicarboxamide

Synonym Alpelisib, NVP-BYL719, BYL-719

Formula C₁₉H₂₂F₃N₅O₂S

Formula Wt. 441.47

Melting Point

Purity ≥99%, ≥99%ee

Solubility DMSO 88 mg/mL (199.33 mM)

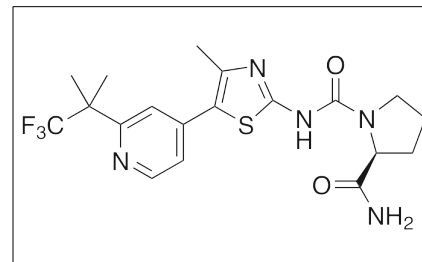
Ethanol 2 mg/mL (4.53 mM)

Water Insoluble

Store Temp -20°C

Ship Temp Ambient

Description BYL-719 is an ATP-competitive oral PI3K inhibitor selective for the p110α isoform that is activated by a mutant PIK3CA gene in HER2+ breast cancers and gastric cancers. BYL-719 exhibits anticancer chemotherapeutic activity and inhibits proliferation in a variety of cell lines. IGF1 and neuregulin 1 activate mTOR, a downstream target of PI3K that mediates resistance to BYL-719 in some in vitro cancer models. This compound also decreases invasion and epithelial-to-mesenchymal transition (EMT) in cellular and animal models of squamous cell lung cancer.



Pricing and Availability

Bulk quantities available upon request

Product ID	Size	List Price
B9700	1 mg	\$63.00
B9700	5 mg	\$115.50
B9700	25 mg	\$173.30
B9700	100 mg	\$446.30

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.

Elkabets M, Vora S, Juric D, et al. mTORC1 Inhibition Is Required for Sensitivity to PI3K p110α Inhibitors in PIK3CA-Mutant Breast Cancer. Sci Transl Med. 2013 Jul 31;5(196):196ra99. PMID: 23903756.

Abstract: Juric. BYL719, a next generation PI3K alpha specific inhibitor: Preliminary safety, PK, and efficacy results from the first-in-human study. American Association for Cancer Research. 2012.

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