



LKT Laboratories, Inc.

PLX4720

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Product Information

Product ID P4492

CAS No. 918505-84-7

Chemical Name

Synonym

Formula $C_{17}H_{14}ClF_2N_3O_3S$

Formula Wt. 413.83

Melting Point

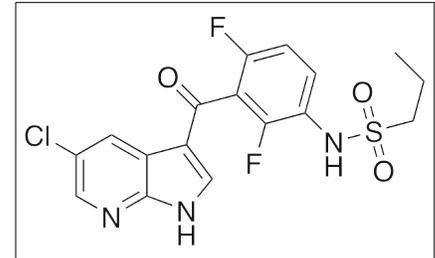
Purity $\geq 98\%$

Solubility DMSO 83 mg/mL (200.56 mM)
Water Insoluble
Ethanol Insoluble

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

Ship Temp Ambient

Description PLX4720 is an orally available ATP-competitive kinase inhibitor specific for mutant (V600E) B-Raf, which is present in a variety of cancer subtypes. PLX4720 is an analog of vemurafenib. This compound is being examined as a treatment for unresectable or metastatic melanomas. Inhibition of B-Raf by PLX4720 induces apoptosis and autophagy in tumor cells, resulting in decreased tumor growth and increased survival in vitro and in vivo. Additional downstream effects of B-Raf inhibition by PLX4720 include downregulation of expression of angiogenic factors, enhancement of surface expression of tumor-associated antigens on tumor cells, and alterations of trafficking of local immune cells such as CD8+ T lymphocytes.



Bulk quantities available upon request

Product ID	Size
P4492	5 mg
P4492	25 mg

References Liu C, Peng W, Xu C, et al. BRAF inhibition increases tumor infiltration by T cells and enhances the antitumor activity of adoptive immunotherapy in mice. *Clin Cancer Res.* 2013 Jan 15;19(2):393-403. PMID: 23204132.

Bottos A, Martini M, Di Nicolantonio F, et al. Targeting oncogenic serine/threonine-protein kinase BRAF in cancer cells inhibits angiogenesis and abrogates hypoxia. *Proc Natl Acad Sci U S A.* 2012 Feb 7;109(6):E353-9. PMID: 22203991.

Wilmott JS, Long GV, Howle JR, et al. Selective BRAF inhibitors induce marked T-cell infiltration into human metastatic melanoma. *Clin Cancer Res.* 2012 Mar 1;18(5):1386-94. PMID: 22156613.

Boni A, Cogdill AP, Dang P, et al. Selective BRAFV600E inhibition enhances T-cell recognition of melanoma without affecting lymphocyte function. *Cancer Res.* 2010 Jul 1;70(13):5213-9. PMID: 20551059.

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