



LKT Laboratories, Inc.

PKC412

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## Product Information

Product ID P4008

CAS No. 120685-11-2

### Chemical Name

Synonym Midostaurin, 4'-N-Benzoyl staurosporine

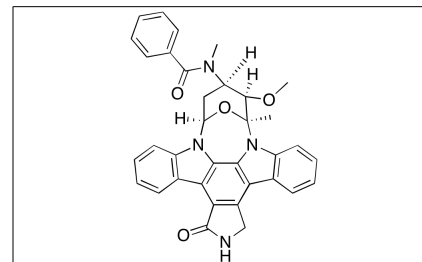
Formula  $C_{35}H_{30}N_4O_4$

Formula Wt. 570.64

Melting Point 235-260°C

Purity  $\geq 98\%$

Solubility DMSO, Dichloromethanol



## Pricing and Availability

**Bulk quantities available upon request**

Product ID	Size	List Price
P4008	1 mg	\$147.00
P4008	5 mg	\$630.00

Store Temp 4°C

Ship Temp Ambient

**Description** PKC412 is an anti-metastatic and anticancer chemotherapeutic staurosporine derivative that inhibits FMS-like tyrosine kinase 3 (FLT3) and is currently in clinical trials as a potential treatment for acute myelogenous leukemia (AML). PKC412 also inhibits PKC. In keloid-derived fibroblasts, PKC412 increases activity of caspase 3, inducing apoptosis. In animal models of melanoma, PKC412 inhibits metastasis and platelet-aggregating activity. This compound also alters differentiation patterns of dendritic cells ex vivo.

**References** Fischer T, Stone RM, Deangelo DJ, et al. Phase IIB trial of oral Midostaurin (PKC412), the FMS-like tyrosine kinase 3 receptor (FLT3) and multi-targeted kinase inhibitor, in patients with acute myeloid leukemia and high-risk myelodysplastic syndrome with either wild-type or mutated FLT3. *J Clin Oncol.* 2010 Oct 1;28(28):4339-45. PMID: 20733134.

Huang YC, Shieh HR, Chen YJ. Midostaurin (PKC412) modulates differentiation and maturation of human myeloid dendritic cells. *Toxicol In Vitro.* 2010 Sep;24(6):1705-10. PMID: 20685248.

Stölzel F, Steudel C, Oelschlägel U, et al. Mechanisms of resistance against PKC412 in resistant FLT3-ITD positive human acute myeloid leukemia cells. *Ann Hematol.* 2010 Jul;89(7):653-62. PMID: 20119833.

Nakazono-Kusaba A, Takahashi-Yanaga F, Miwa Y, et al. PKC412 induces apoptosis through a caspase-dependent mechanism in human keloid-derived fibroblasts. *Eur J Pharmacol.* 2004 Aug 23;497(2):155-60. PMID: 15306200.

Yoshikawa N, Nakamura K, Yamaguchi Y, et al. Effect of PKC412, a selective inhibitor of protein kinase C, on lung metastasis in mice injected with B16 melanoma cells. *Life Sci.* 2003 Feb 7;72(12):1377-87. PMID: 12527035.

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