Catalog # 10-1105

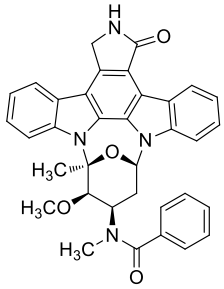
PKC-412

CAS# 120685-11-2

4'-N-Benzoyl staurosporine,

Midostaurin, CGP-41251

Lot # X101154



Broad spectrum kinase inhibitor. Inhibited kinases include, but are not limited to; PKA, PKC, S6 Kinase, KDR, PKC, Akt, EGFR, VEGFR, PDGFR, c-kit, and FLT-3. Acute myeloid leukemia related mutant forms of FLT-3 are also inhibited both *in vitro* and *in vivo*. PKC-412 has been demonstrated to induce apoptosis and shows broad antiproliferative activity in various tumor cell lines. Cell Permeable

1) Odgerel, *et al*. (2008) *The FLT3 inhibitor PKC412 exerts differential cell cycle effects on leukemic cells depending on the presence of FLT3 mutations*. Oncogene **27** 3102
2) El Fitori, et al., (2007) *PKC 412 small-molecule tyrosine kinase inhibitor: single-compound therapy for pancreatic cancer* Cancer **110** 1457
3) Miyatake, *et al.* (2007) *PKC412 (CGP41251) modulates the proliferation and lipopolysaccharide-induced inflammatory responses of RAW 264.macrophages:* Biochem. Biophys. Res. Commun. **360** 115
4) Bahlis et.al. (2005**)** *N-Benzoylstaurosporine (PKC412) inhibits Akt kinase inducing apoptosis in multiple myeloma cells* Leuk. Lymphoma **46** 899
5) Fabbro et al., (2000) *PKC-412 – a protein kinase inhibitor with a broad therapeutic potential;* Anticancer Drug Des. **15** 17

PHYSICAL DATA

Molecular Weight:	570.65
Molecular Formula:	$C_{35}H_{30}N_4O_4$
Purity:	>98% by TLC
	NMR: (Conforms)
Solubility:	DMSO (up to 15 mg/ml); ethanol (up to 2 mg/mL)
Physical Description:	White solid
Storage and Stability:	Store as supplied at room temperature for up to 2 years from the date of purchase.
	Solutions in DMSO and ethanol may be stored at -20°C for up to 2 months.

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