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ILC V	13	IUII	0

Store at -200 PKC412		T I	ell Signaling
Stor		Orders:	877-616-CELL (2355) orders@cellsignal.com
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6#	3 Trask Lane	Danvers   Mas	sachusetts   01923   USA
	r Use in Diagnostic Procedures.		
Background	The staurosporine analog, PKC412, inhibits a variety of serine PKC (IC <sub>50</sub> = 50 nM), cyclic AMP-dependent protein kinase (IC <sub>50</sub> EGFR (epidermal growth factor receptor) tyrosine kinase activ demonstrated stong inhibitory effects on FLT3, which causes	<sub>0</sub> = 2.4 μM), S6 kin vity (IC <sub>50</sub> = 3.0 μM)	ase (IC <sub>50</sub> = 5.0 µM), and ) (1). PKC412 has also
Molecular Formula	C <sub>35</sub> H <sub>30</sub> N <sub>4</sub> O <sub>4</sub>		
Molecular Weight	570.64 g/mol		
Purity	>99%		

Purity	>99%
CAS	120685-11-2
Solubility	Soluble in DMSO at 100mg/ml and EtOH at 5mg/ml.
Storage	Store lyophilized or in solution at -20°C, desiccated. Protect from light. In lyophilized form, the chemical is stable for 24 months. Once in solution, use within 3 months to prevent loss of potency. Aliquot to avoid multiple freeze/thaw cycles.
Directions for Use	PKC412 is supplied as a lyophilized powder. For a 10 mM stock, reconstitute 1 mg in 175.24 $\mu$ L DMSO. Working concentrations and length of treatment can vary depending on the desired effect, but it is typically used at 0.1-10 $\mu$ M for 18-48 hours. Soluble in DMSO at 100 mg/mL; soluble in ethanol at 5 mg/mL with warming; very poorly soluble in water with maximum solubility estimated to be about 10- 20 $\mu$ M.
Background References	1. Meyer, T. et al. (1989) <i>Int J Cancer</i> 43, 851-6. 2. Bali, P. et al. (2004) <i>Clin Cancer Res</i> 10, 4991-7.
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