Staurosporine



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250 μg

For Research Use Only. Not for Use in Diagnostic Procedures.

Background Staurosporine is an alkaloid isolated from the culture broth of Streptomyces staurosporesa. It is a potent,

cell permeable protein kinase C inhibitor with an IC50 of 0.7 nM. At higher concentration (1-20 nM), staurosporine also inhibits other kinases such as PKA, PKG, CAMKII and Myosin light chain kinase (MLCK) (1). At 50-100 nM, it is a functional neurotrophin agonist, promoting neurite outgrowth in neuroblastoma, pheochromocytoma and brain primary neuronal cultures. At 0.2- 1 µM, staurosporine

induces cell apoptosis (2,3).

Molecular Weight 466.5 g/mol

Purity >99%

CAS 62996-74-1

Solubility Soluble in DMSO at 50mg/ml and EtOH at 2mg/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: Dissolve the lyophilized alkaloid in DMSO or Methanol. For a 1 mM solution, dissolve in 0.536 mL.

Background 1. Ruegg, U.T. and Burgess, G.M. (1989) *Trends Pharmacol. Sci.* 10, 218-220. **References** 2. Couldwell . W. T. et al. (1994) *FEBS Lett.* 345, 43-46.

References2. Couldwell , W. T. et al. (1994) *FEBS Lett.* 345, 43-46.
3. Yue, T. L. et al. (1998) *J. Mol. Cell. Cardiol.* 30, 495-507.

Cross-Reactivity Key

H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster

X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse

GP: Guinea Pig Rab: rabbit All: all species expected

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