Staurosporine		ell Signaling
Store	Orders:	877-616-CELL (2355) orders@cellsignal.com
250 μg	Support:	877-678-TECH (8324)
#9953 #	Web:	info@cellsignal.com cellsignal.com
¥	3 Trask Lane   Danvers   Mas	sachusetts   01923   USA
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 Formula	$C_{28}H_{26}N_4O_3$
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 References	1. Ruegg, U.T. and Burgess, G.M. (1989) <i>Trends Pharmacol. Sci.</i> 10, 218-220. 2. Couldwell , W. T. et al. (1994) <i>FEBS Lett.</i> 345, 43-46. 3. Yue, T. L. et al. (1998) <i>J. Mol. Cell. Cardiol.</i> 30, 495-507.
Trademarks and Patents	Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc. All other trademarks are the property of their respective owners. Visit cellsignal.com/trademarks for more information.
Limited Uses	Except as otherwise expressly agreed in a writing signed by a legally authorized representative of CST, the following terms apply to Products provided by CST, its affiliates or its distributors. Any Customer's terms and conditions that are in addition to, or different from, those contained herein, unless separately accepted in writing by a legally authorized representative of CST, are rejected and are of no force or effect.
	Products are labeled with For Research Use Only or a similar labeling statement and have not been approved, cleared, or licensed by the FDA or other regulatory foreign or domestic entity, for any purpose. Customer shall not use any Product for any diagnostic or therapeutic purpose, or otherwise in any manner that conflicts with its labeling statement. Products sold or licensed by CST are provided for Customer as the end-user and solely for research and development uses. Any use of Product for diagnostic, prophylactic or therapeutic purposes, or any purchase of Product for resale (alone or as a component) or other commercial purpose, requires a separate license from CST. Customer shall (a) not sell, license, loan, donate or otherwise transfer or make available any Product to any third party, whether alone or in combination with other materials, or use the Products to manufacture any commercial products, (b) not copy, modify, reverse engineer, decompile, disassemble or otherwise attempt to discover the underlying structure or technology of the Products, or use the Products for the purpose of developing any products or services that would compete with CST products or services, (c) not alter or remove from the Products solely in accordance with CST Product Terms of Sale and any applicable documentation, and (e) comply with any license, terms of service or similar agreement with respect to any third party products or services used by Customer in connection with the Products.

Orders: 877-616-CELL (2355) • orders@cellsignal.com • Support: 877-678-TECH (8324) • info@cellsignal.com • Web: cellsignal.com For Research Use Only. Not for Use in Diagnostic Procedures.