Staurosporine
PRODUCT DATA SHEET

issue date 01/06/2020

Product Name:	Staurosporine
Product Number:	S070
CAS Number:	62996-74-1
Molecular Formula:	$C_{28}H_{26}N_4O_3$
Molecular Weight:	466.5
Appearance:	White solid
Storage Conditions:	-20°C
Description:	Staurosporine is an unusual indolocarbazole alkaloid produced by a range of actinomycete species. It is a potent antitumor active, inducing apoptosis in a variety of cell lines. At submicromolar concentrations, staurosporine inhibits both IKKalpha and IKKbeta. Staurosporine is soluble in ethanol, methanol, DMF and DMSO.
Mechanism of Action:	Staurosporine is a potent inhibitor of many kinases including protein kinase C, tyrosine kinase, CDK2/cyclin A and CDK4/cyclin D.
References:	IkappaB kinases alpha and beta show a random sequential kinetic mechanism and are inhibited by staurosporine and quercetin. Peet G.W. et al. J. Biol. Chem. 1999, 274, 32655. Characterization of the cell death process induced by staurosporine in human neuroblastoma cell lines. Boix J. et al. Neuropharmacology 1997, 36, 811. Staurosporine, K-252 and UCN-01: potent but nonspecific inhibitors of protein kinases. Ruegg U.T. et al. Trends Pharmacol. Sci. 1989, 10, 218.