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. Staurosporine is a potent inhibitor of many kinases including protein kinase C, tyrosine kinase, CDK2/cyclin A and CDK4/cyclin D. At submicromolar concentrations staurosporine inhibits both IKKα and IKKβ.

References

1. IkappaB kinases α and β show a random sequential kinetic mechanism and are inhibited by staurosporine and quercetin. Peet G.W. et al. J. Biol. Chem. 1999, 274, 32655.