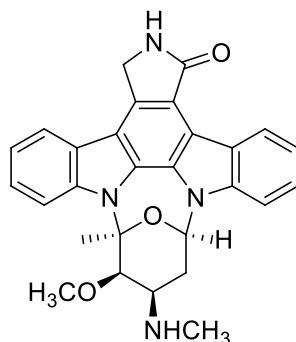


## Staurosporine

Code No.: **BIA-S1086**

Pack sizes: **5 mg, 25 mg**



Synonyms : AM 2282, M 193

### Specifications

CAS #	: 62996-74-1
Molecular Formula	: C <sub>28</sub> H <sub>26</sub> N <sub>4</sub> O <sub>3</sub>
Molecular Weight	: 466.5
Source	: <i>Streptomyces</i> sp.
Appearance	: White to lemon yellow solid
Purity	: >95% by HPLC
Long Term Storage	: -20°C
Solubility	: Soluble in ethanol, methanol, DMF or DMSO. Poor water solubility.

### Application Notes

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 IKKalpha and IKKbeta.

### References

1. IkkappaB 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.
2. Characterization of the cell death process induced by staurosporine in human neuroblastoma cell lines. Boix J. et al., Neuropharmacology 1997, 36, 811.
3. Staurosporine, K-252 and UCN-01: potent but nonspecific inhibitors of protein kinases. Ruegg U.T. et al., Trends Pharmacol. Sci. 1989, 10, 218.