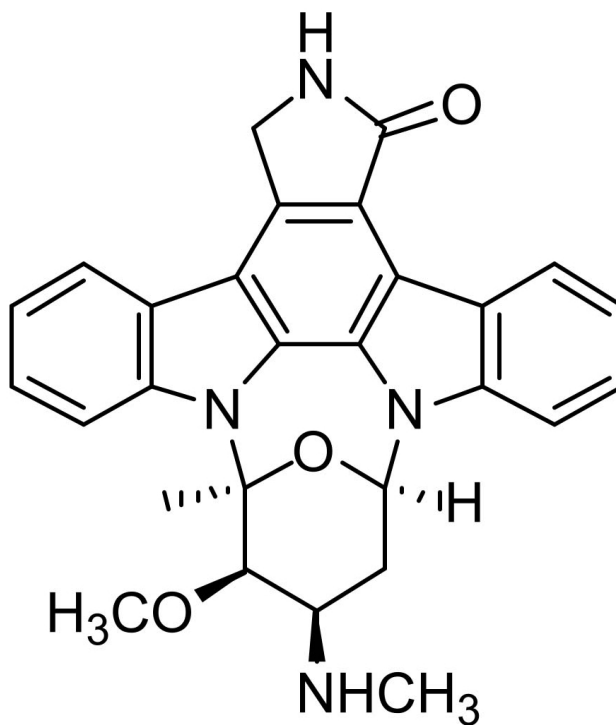


Staurosporine

Code No.: BIA-S1086

Pack sizes.: 5mg, 25mg



Synonyms:
AM 2282, M 193

Specifications

CAS #	: 62996-74-1
Molecular Formula	: C ₂₈ H ₂₆ N ₄ O ₃
Molecular Weight	: 466.5
Source	: -
Appearance	: White to lemon yellow solid
Purity	: >99% 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. 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.
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.