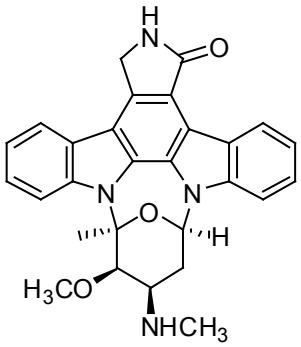
bioaustralis
fine chemicals

PRODUCT DATA SHEET

Staurosporine

Code: **BIA-S1086**

Pack sizes: **5.0 mg, 25 mg**



Synonyms : **Antibiotic AM 2282, Antibiotic M 193**

Specifications

CAS #	:	**62996-74-1**
Molecular Formula	:	**$C_{28}H_{26}N_4O_3$**
Molecular Weight	:	**466.5**
Source	:	***Streptomyces* sp. MST-AS5345**
Appearance	:	**White solid**
Purity	:	**>99% by HPLC**
Long Term Storage	:	**+4°C**
Solubility	:	**Soluble in ethanol, methanol, DMF or DMSO.**

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 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.
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.

Building C, 28-54 Percival Road, Smithfield NSW 2164, AUSTRALIA

Tel: 61 2 9757 4515 Fax: 61 2 9757 2586 Web: www.bioaustralis.com Email: info@bioaustralis.com