Data Sheet

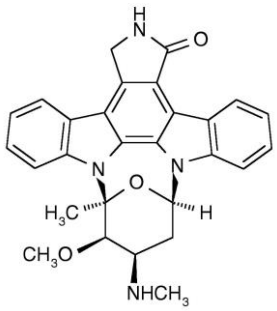
Staurosporine, Free Base

Catalog #: 27002

Lot #: 111118

Size: 1 mg

Structure:



CAS Registry #: 62996-74-1

Purity: ≥ 95%

Chemical Formula: $C_{28}H_{26}N_4O_3$

Molecular Weight: 466.53

Description: Staurosporine is a potent inhibitor of many kinases including protein kinase C, protein kinase A, and protein kinase G. It also induces apoptosis in human neuroblastoma cell lines and chick embryonic neurons.

Appearance: Light yellow crystalline solid or solid film at bottom of vial.

Solubility: Soluble in DMSO or ethanol; insoluble in water.

Biological Activity: Staurosporine, a microbial alkaloid with antifungal activity, has been shown to inhibit a variety of kinases including PKA (K_i=7.0 nM), PKG (K_i=8.5 nM), MLCK (K_i=1.3 nM), PKC (K_i=0.7 nM), CaMK (IC_{50}=20 nM), CAMKII (K_i=20nM), tyrosine kinases (IC_{50}=70 nM) and phosphorylase kinase (IC_{50}=0.5 nM).

Storage/Stability: Store at or below -20°C.

Quality Control: The purity was determined by HPLC.

References:

1. Matsumoto, H., *et al. Biochem. Biophys. Res. Commun.* **128**: 105-109 (1989).
2. Tamaoki, T., *et al. Biochem. Biophys. Res. Commun.* **135**: 397-402 (1986).
3. Boix, J., *et al. Neuropharmacology* **36**: 811-821 (1997).
4. Wiesner, D.A. and Dawson, G. *J. Neurochem*. **66**: 1418 – 1425 (1996).

6044 Cornerstone Court West, Suite E, San Diego, CA 92121
Tel: (858) 829 -3082 ● Fax: (858) 481 – 8694
Email: info@bpsbioscience.com ● Visit: www.bpsbioscience.com