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DATASHEET

Staurosporine

Product overview

Name	Staurosporine
Cat No	HB0590
Alternative names	AM-2282, STS
Biological action	Inhibitor
Purity	>98%
Description	Potent, non-specific protein kinase inhibitor. Apoptosis inducer.

Images

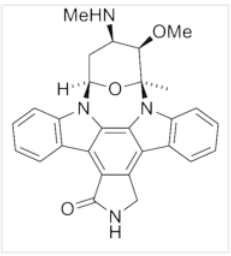
Biological Data

Biological description	Potent and non-specific protein kinase inhibitor (IC_{50} values are 3, 7, 6 and 20 nM at PKC, PKA, p60v-src tyrosine protein kinase and CAMKII respectively). Cell permeable. Induces apoptosis.

Solubility & Handling

Storage instructions	+4°C
Solubility overview	Soluble in DMSO (25mg/ml) or DMF (25mg/ml)
Important	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

Chemical Data

Chemical name	Antibiotic AM-2282
Molecular Weight	466.53
Chemical structure	

Molecular Formula	$C_{28}H_{26}N_4O_3$
CAS Number	62996-74-1
PubChem identifier	44259
SMILES	CC12C(C(CC(O1)N3C4=CC=CC=C4C5=C6C(=C7C8=CC=CC=C8N2C7=C53)CNC6=O)NC)OC
InChiKey	HKSZLNNOFSGOKW-FYTWVXJKSA-N

References

Staurosporine, a potent inhibitor of phospholipid/Ca++dependent protein kinase.

Tamaoki T *et al* (1986) Biochem Biophys Res Commun 135(2)
PubMedID 3457562

Staurosporine: an effective inhibitor for Ca2+/calmodulin-dependent protein kinase II.

Yanagihara N *et al* (1991) J Neurochem 56(1)
PubMedID 1846174

Staurosporine, K-252 and UCN-01: potent but nonspecific inhibitors of protein kinases.

Rüegg UT *et al* (1989) Trends Pharmacol Sci 10(6)
PubMedID 2672462