Product Name: Staurosporine
Catalog No.: 1285
Batch No.: 4

CAS Number: 62996-74-1
IUPAC Name: [9S-(9α,10β,11β,13α)]-2,3,10,11,12,13-Hexahydro-10-methoxy-9-methyl-11-(methylamino)-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-1-one

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: \( \text{C}_{28}\text{H}_{26}\text{N}_{4}\text{O}_{3} \)
Batch Molecular Weight: 466.54
Physical Appearance: Yellow solid
Solubility: DMSO to 50 mM
Storage: Store at +4°C

2. ANALYTICAL DATA

HPLC: Shows 99.4% purity
\(^1\text{H} \text{NMR}: \) Consistent with structure
Mass Spectrum: Consistent with structure
**Product Name:** Staurosporine  
**CAS Number:** 62996-74-1  
**IUPAC Name:** \([9S-(9\alpha,10\beta,11\beta,13\alpha)];2,3,10,11,12,13-Hexahydro-10-methoxy-9-methyl-11-(methylamino)-9,13-epoxy-1H,9H-diindolo[1,2,3-g:3',2',1'-im]pyrrolo[3,4-j][1,7]benzodiazonin-1-one\)  

**Description:** Broad spectrum protein kinase inhibitor. Enzymes inhibited include protein kinase C (IC\(_50\) = 3 nM), protein kinase A (IC\(_50\) = 7 nM), \(p^{\alpha^{\prime}-\text{ter}}\)-tyrosine protein kinase (IC\(_50\) = 6 nM) and CaM kinase II (IC\(_50\) = 20 nM).

**Physical and Chemical Properties:**  
Batch Molecular Formula: \(C_{29}H_{26}N_{10}O_{3}\)  
Batch Molecular Weight: 466.54  
Physical Appearance: Yellow solid  
Minimum Purity: >98%  

**Batch Molecular Structure:**

![Batch Molecular Structure](image)

**Storage:** Store at +4°C  
CAUTION - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

**Solubility & Usage Info:**  
DMSO to 50 mM  
This product is supplied as a lyophilized solid and may be very hard to visualize. Solutions should be made by adding solvent directly to the vial. The vial should then be vortexed vigorously to ensure the product has completely dissolved.

**Stability and Solubility Advice:**  
Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).  
Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:  
**SOLIDS:** Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.  
**SOLUTIONS:** We recommend that stock solutions, once prepared, are stored aliquotted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

**References:**  