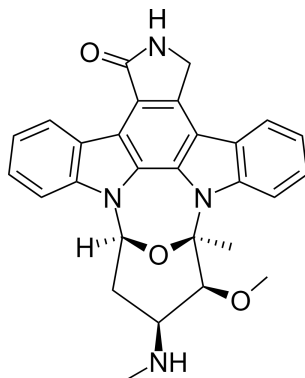


**ReadiUse™ Staurosporine * 1 mM DMSO
stock solution***Catalog number: 80050
Unit size: 100 µL**Product Details**

Storage Conditions	Freeze (<-15 °C), Minimize light exposure
Expiration Date	24 months upon receiving

Chemical Properties

Appearance	Colorless liquid
Molecular Weight	466.54
Soluble In	DMSO
Chemical Structure	

**Applications**

Staurosporine is widely used as a positive control for inducing apoptosis. It has been proven that Staurosporine induces apoptosis in human malignant glioma cell lines, and arrests normal cells at the G1 checkpoint. Staurosporine is a potent, cell-permeable, reversible, ATP-competitive and broad spectrum inhibitor of protein kinases, e.g., CaM kinase (IC₅₀ = 20 nM), myosin light chain kinase (IC₅₀ = 1.3 nM), protein kinase A (IC₅₀ = 7 nM), protein kinase C (IC₅₀ = 0.7 nM), and protein kinase G (IC₅₀ = 8.5 nM). Staurosporine also inhibits platelet aggregation induced by collagen or ADP but has no effect on thrombin-induced platelet aggregation.