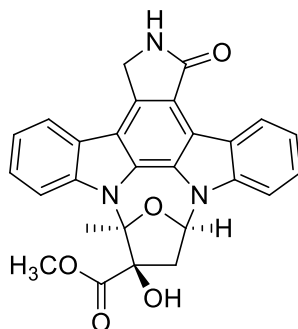


K252A

Code No.: **BIA-K1225**

Pack sizes: **0.5 mg, 2.5 mg**



Synonyms : SF 2370

Specifications

CAS #	: 99570-78-2
Molecular Formula	: C ₂₇ H ₂₁ N ₃ O ₅
Molecular Weight	: 467.5
Source	: <i>Nocardiosis</i> sp.
Appearance	: White solid
Purity	: >95% by HPLC
Long Term Storage	: -20°C
Solubility	: Soluble in ethanol, methanol, DMF or DMSO. Limited water solubility.

Application Notes

K252A is a staurosporine analogue isolated from a *Nocardiosis* strain as a potent inhibitor of protein kinase C. K252A exhibits potent antitumor activity but shows no antimicrobial activity in vitro, or in vivo toxicity in rodents. While K252A is a potent inhibitor of Ca²⁺/calmodulin kinase II, it is also active against other kinases, notably myosin light chain kinase, cAMP-dependent protein kinase (PKA), protein kinase C (PKC) and cGMP-dependent protein kinase (PKG).

References

1. K-252a, a potent inhibitor of protein kinase C from microbial origin. Kase H. et al., J. Antibiot. 1986, 39, 1059.
2. The structures of the novel protein kinase C inhibitors K-252a, b, c and d. Yasuzawa T. et al., J. Antibiot. 1986, 39, 1072.