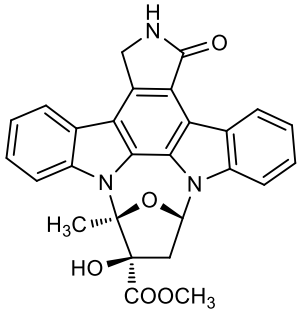
Catalog # 10-2080

K-252a

CAS# 99533-80-9

Lot # X101234



Potent pan-specific protein kinase inhibitor: PKA (K_i = 18 nM), PKC (K_i = 25 nM) PKG (K_i = 20 nM)[1]. Inhibits CaMK (K_i = 1.8 nM)[2] and phosphorylase kinase (IC_{50} = 1.7 nM)[3] as well as other kinases[4]. Induces apoptosis[5]. Cell permeable.

1) Kase *et al*. (1987), *K-252 compounds, novel and potent inhibitors of protein kinase C and cyclic nucleotide-dependent protein kinases*; Biochem. Biophys. Res. Commun., **142** 436
2) Hashimoto *et al*. (1991), *Potent and preferential inhibition of Ca2+/calmodulin-dependent protein kinase II by K252a and its derivative KT5926*; Biochem. Biophys. Res. Commun., **181** 423
3) Berg *et al*. (1992), *K-252a inhibits nerve growth factor-induced trk proto-ooncogene tyrosine phosphorylation and kinase activity*; J. Biol. Chem., **267** 13
4) Ruegg *et al*. (1989), *Staurosporine, K-252 and UCN-01: potent but non-specific inhibitors of protein kinases*; Trends Pharmacol. Sci., **10** 218
5) Mohri *et al*. (1999), *K252a induces cell cycle arrest and apoptosis by inhibiting Cdc2 and Cdc25c*; Cancer Invest., **17** 391

PHYSICAL DATA

Molecular Weight:	467.49
Molecular Formula:	$C_{27}H_{21}N_3O_5$
Purity:	98% by TLC
	NMR: (Conforms)
Solubility:	DMSO (up to 100 mg/ml)
Physical Description:	White or off-white solid
Storage and Stability:	Store as supplied desiccated at -20°C for up to 1 year from the date of purchase. Solutions in DMSO may be stored at -20°C for up to 3 months.

Focus Biomolecules LLC 400 Davis Drive, Suite 600 Plymouth Meeting PA 19462

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