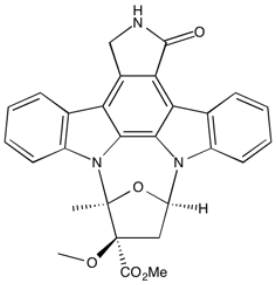
Catalog # 10-2083

KT-5823

CAS# 126643-37-6

Lot # S101185



Selective protein kinase G inhibitor (K_i =0.23, 4 and >10 μM for PKG, PKC and PKA respectively[1]. Arrests human skin fibroblast cell cycle after the G0/G1 boundary[2]. Abolishes the cGMP-induced relaxation in smooth muscle cells (IC_{50}=60 nM)[3]. Cell permeable.

1) Kase *et al*. (1987), *K252 compounds, novel and potent inhibitors of protein kinase C and cyclic nucleotide-dependent protein kinases*; Biochem. Biophys. Res. Commun., **142** 436
2) Gadbois *et al*. (1992), *Multiple kinase arrest points in the G1 phase of nontransformed mammalian cells are absent in transformed cells*; Proc. Natl. Acad. Sci. USA, **89** 8626
3) Murthy *et al*. (1995), *Interaction of cA-kinase and cG-kinase in mediating relaxation of dispersed smooth muscle cells*; Am. J. Physiol., **268** C171

PHYSICAL DATA

Molecular Weight:	495.53
Molecular Formula:	$C_{29}H_{25}N_3O_5$
Purity:	98% by TLC
	NMR: (Conforms)
Solubility:	DMSO (up to 25 mg/ml) or DMF (up to 20 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 or DMF may be stored at -20°C for up to 3 months.

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