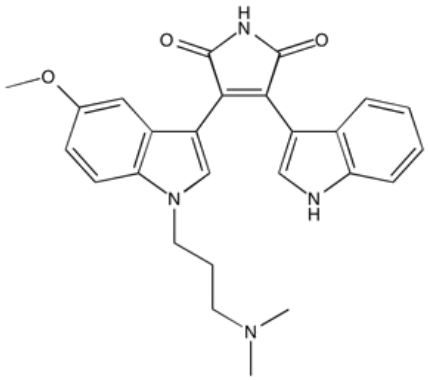
Catalog # 10-2621

Go-6983

CAS# 133053-19-7

3-[1-[3-(Dimethylamino)propyl]-5-methoxy-1H-indol-3-yl]-4-(1H-indol-3-yl)-1H-pyrrole-2,5-dione

Lot # X101477



A potent and pan-specific, ATP-competitive protein kinase C inhibitor. PKC isotype IC_{50}s= 7, 7, 6, 10 and 60 nM for PKC α, β, γ, δ, ζ respectively.[1] Suppresses stress induced HSP27 disassociation.[2] Maintains rat embryonic stem cell pluripotency.[3] Attenuates myocardial ischemia/reperfusion injury.[4]

1) Gschwendt et al. (1996), *Inhibition of protein kinase C mu by various inhibitors. Differentiation from protein kinas C isoenzymes*; FEBS Lett., **392** 77
2) Kato *et al*. (2001), *Protein kinase inhibitors can suppress stress-induced dissociation of Hsp27*; Cell Stress Chaperones, **6** 16
3) Rajendran *et al*. (2013), *Inhibition of protein kinas C signaling maintains rat embryonic stem cell pluripotency*; J. Biol. Chem., **288** 24351
4) Young *et al*. (2005), *Go 6983: a fast acting protein kinase C inhibitor that attenuates myocardial ischemia/reperfusion injury*; Cardiovasc, Drug Rev., **23** 255

PHYSICAL DATA

Molecular Weight:	442.51
Molecular Formula:	$C_{26}H_{26}N_4O_3$
Purity:	98% by HPLC
	NMR: (Conforms)
Solubility:	Soluble in DMSO (up to 20 mg/ml)
Physical Description:	Red-orange solid
Storage and Stability:	Store as supplied, 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 month.

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