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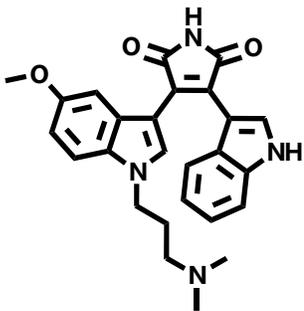
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PKC Inhibitor– Go6893

Chemical Name: 3-(1-(3-(dimethylamino)propyl)-5-methoxy-1H-indol-3-yl)-4-(1H-indol-3-yl)-1H-pyrrole-2,5-dione



Molecular Weight:	442.51
Formula:	C ₂₆ H ₂₆ N ₄ O ₃
Purity:	≥98%
CAS#:	133053-19-7
Solubility:	DMSO up to 100 mM
Storage	Powder: 4°C 1 year DMSO: 4°C 3 month -20°C 1 year

Biological Activity:

Go6983 is a potent pan-PKC inhibitor against for PKC α , PKC β , PKC γ , PKC δ and PKC ζ with IC₅₀ of 7 nM, 7 nM, 6 nM, 10 nM and 60 nM, respectively. It is inactive to PKC μ . Go6983 displays cardioprotective properties. It can reduce polymorphonuclear leukocyte adherence and infiltration following myocardial ischemia/reperfusion injury. It can also optimize naïve human pluripotent stem cell growth and viability following naïve cell derivation from primed ESCs and iPSCs using naïve human stem cell medium (NHSM). It is used in a chemical cocktail of seven small molecules to directly convert human fibroblasts into neuronal cells bypassing a neural progenitor stage.

How to Use:

In vitro: Go6983 was used at 1-5 μ M final concentration in vitro and in cellular assays.

In vivo: Go6983 was dosed by IV injection to mice bearing B16BL6 tumors at 22 μ g per mouse.

Reference:

1. Gschwendt M, et al. Inhibition of protein kinase C mu by various inhibitors. Differentiation from protein kinase c isoenzymes. (1996) FEBS Lett. 392(2):77-80.
2. Peterman EE, et al. Gö 6983 exerts cardioprotective effects in myocardial ischemia/reperfusion. (2004) J Cardiovasc Pharmacol. 43(5):645-56.
3. Young LH, et al. Gö 6983: a fast acting protein kinase C inhibitor that attenuates myocardial ischemia/reperfusion injury. (2005) Cardiovasc Drug Rev. 23(3):255-72.
4. Gafni O, et al. Derivation of novel human ground state naïve pluripotent stem cells. (2013) Nature. 504(7479):282-6.
5. Hu W, et al. Direct Conversion of Normal and Alzheimer's Disease Human Fibroblasts into Neuronal Cells by Small Molecules. (2015) Cell Stem Cell. 17(2):204-12.

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