

Product Name: Go 6983

Catalog No.: 2285

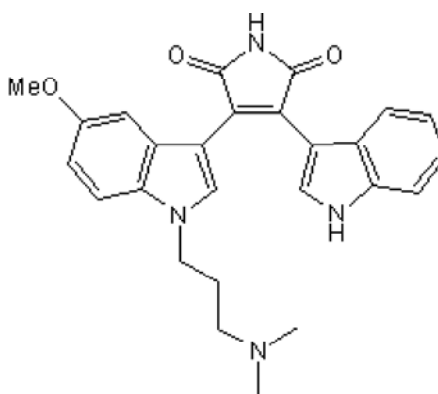
Batch No.: 6

CAS Number: 133053-19-7

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

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₆H₂₆N₄O₃
Batch Molecular Weight: 442.51
Physical Appearance: Bright red solid
Solubility: DMSO to 50 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 100.0% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	70.57	5.92	12.66
Found	70.63	6.01	12.66

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Description:

Broad spectrum protein kinase C (PKC) inhibitor (IC₅₀ values are 7, 7, 6, 10, 60 and 20000 nM for PKC α , PKC β , PKC γ , PKC δ , PKC ζ and PKC μ respectively). Displays cardioprotective properties; reduces polymorphonuclear leukocyte adherence and infiltration following myocardial ischemia/reperfusion injury. Optimizes naïve human pluripotent stem cell growth and viability following naïve cell derivation from primed ESCs and iPSCs using naïve human stem cell medium (NHSM).

Physical and Chemical Properties:

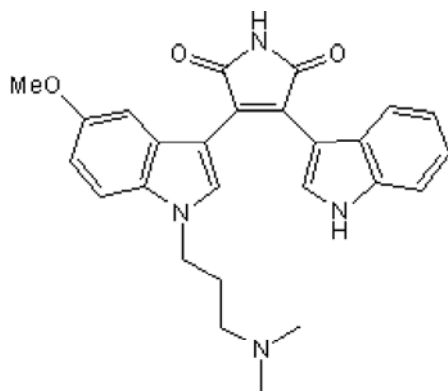
Batch Molecular Formula: C₂₆H₂₆N₄O₃

Batch Molecular Weight: 442.51

Physical Appearance: Bright red solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 50 mM

When purchased as a 1mg unit, this product is supplied as a lyophilized solid and may be very hard to visualize. Solutions should be made by adding solvent directly to the vial. The vial should then be vortexed vigorously to ensure the product has completely dissolved.

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Gafni et al (2013) Derivation of novel human ground state naïve pluripotent stem cells. *Nature* **504** 282. PMID: 24172903.

Young et al (2005) Go 6983: a fast acting protein kinase C inhibitor that attenuates myocardial ischemia/reperfusion injury. *Cardiovasc. Drug Rev.* **23** 255. PMID: 16252018.

Peterman et al (2004) Go 6983 exerts cardioprotective effects in myocardial ischemic/reperfusion. *J. Cardiovasc. Pharmacol.* **43** 645. PMID: 15071351.

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