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## DATASHEET

Go 6983

### Product overview

|                          |                                                                                                |
|--------------------------|------------------------------------------------------------------------------------------------|
| <b>Name</b>              | Go 6983                                                                                        |
| <b>Cat No</b>            | HB0303                                                                                         |
| <b>Biological action</b> | Inhibitor                                                                                      |
| <b>Purity</b>            | >98%                                                                                           |
| <b>Description</b>       | Broad spectrum PKC inhibitor. Optimizes naïve human pluripotent stem cell growth and viability |

### Images



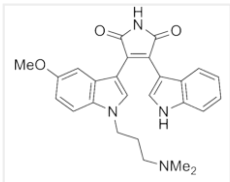
### Biological Data

|                               |                                                                                                                                                                                                                                                                                                                                                                                          |
|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Biological description</b> | Broad spectrum protein kinase C (PKC) inhibitor (IC <sub>50</sub> values are 7, 7, 6, 10, 60 nM and 20 μM for PKC-α, PKC-β, PKC-γ, PKC-δ, PKC-ζ and PKC-μ respectively). Also suppresses TNF-α production (IC <sub>50</sub> = 8.3 nM) and up-regulates Akt phosphorylation. Displays cardioprotective properties. Also optimizes naïve human pluripotent stem cell growth and viability. |
|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### Solubility & Handling

|                             |                                                                                                                               |
|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| <b>Storage instructions</b> | -20 °C                                                                                                                        |
| <b>Solubility overview</b>  | Soluble in DMSO (50mM)                                                                                                        |
| <b>Important</b>            | This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use. |

### Chemical Data

|                           |                                                                                                                           |
|---------------------------|---------------------------------------------------------------------------------------------------------------------------|
| <b>Chemical name</b>      | 3-[1-[3-(Dimethylamino)propyl]-5-methoxy-1 <i>H</i> -indol-3-yl]-4-(1 <i>H</i> -indol-3-yl)-1 <i>H</i> -pyrrole-2,5-dione |
| <b>Molecular Weight</b>   | 442.51                                                                                                                    |
| <b>Chemical structure</b> |                                        |

|                          |                                                               |
|--------------------------|---------------------------------------------------------------|
| <b>Molecular Formula</b> | C <sub>26</sub> H <sub>26</sub> N <sub>4</sub> O <sub>3</sub> |
|--------------------------|---------------------------------------------------------------|

|                           |                                                                                                                                                                                |
|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Chemical name</b>      | 3-[1-[3-(Dimethylamino)propyl]-5-methoxy-1 <i>H</i> -indol-3-yl]-4-(1 <i>H</i> -indol-3-yl)-1 <i>H</i> -pyrrole-2,5-dione                                                      |
| <b>CAS Number</b>         | 133053-19-7                                                                                                                                                                    |
| <b>PubChem identifier</b> | 3499                                                                                                                                                                           |
| <b>SMILES</b>             | CN(C)CCCN1C=C(C2=C1C=CC(=C2)OC)C3=C(C(=O)NC3=O)C4=CNC5=CC=CC=C54                                                                                                               |
| <b>InChi</b>              | InChI=1S/C26H26N4O3/c1-29(2)11-6-12-30-15-20(18-13-16(33-3)9-10-22(18)30)24-23(25(31)28-26(24)32)19-14-27-21-8-5-4-7-17(19)21/h4-5,7-10,13-15,27H,6,11-12H2,1-3H3,(H,28,31,32) |
| <b>InChiKey</b>           | LLJJDLHGZUOMQP-UHFFFAOYSA-N                                                                                                                                                    |
| <b>MDL number</b>         | MFCD04040031                                                                                                                                                                   |

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## References

### Gö 6983: a fast acting protein kinase C inhibitor that attenuates myocardial ischemia/reperfusion injury.

Young LH *et al* (2005) Cardiovasc Drug Rev 23(3)

**PubMedID** [16252018](#)

### Conventional protein kinase C and atypical protein kinase Czeta differentially regulate macrophage production of tumour necrosis factor-alpha and interleukin-10.

Foey AD *et al* (2004) Immunology 112(1)

**PubMedID** [15096183](#)

### Inhibition of protein kinase C mu by various inhibitors. Differentiation from protein kinase c isoenzymes.

Gschwendt M *et al* (1996) FEBS Lett 392(2)

**PubMedID** [8772178](#)

### PKC inhibitors RO 31-8220 and Gö 6983 enhance epinephrine-induced platelet aggregation in catecholamine hypo-responsive platelets by enhancing Akt phosphorylation.

Kim SY *et al* (2011) BMB Rep 44(2)

**PubMedID** [21345315](#)

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