

Hello Bio, Inc.
304 Wall St., Princeton, NJ 08540 USA

T. 609-683-7500
F. 609-228-4994

customercare-usa@hellobio.com



DATASHEET

Go 6983

Product overview

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

Images



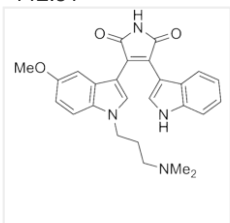
Biological Data

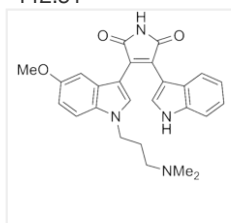
Biological description	Broad spectrum protein kinase C (PKC) inhibitor (IC_{50} values are 7, 7, 6, 10, 60 nM and 20 μ M for PKC- α , PKC- β , PKC- γ , PKC- δ , PKC- ζ and PKC- μ respectively). Also suppresses TNF- α production (IC_{50} = 8.3 nM) and up-regulates Akt phosphorylation. Displays cardioprotective properties. Also optimizes naïve human pluripotent stem cell growth and viability.
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Solubility & Handling

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

Chemical Data

Chemical name	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
Molecular Weight	442.51
Chemical structure	



Molecular Formula	C ₂₆ H ₂₆ N ₄ O ₃
CAS Number	133053-19-7
PubChem identifier	3499
SMILES	CN(C)CCCN1C=C(C2=C1C=CC(=C2)OC)C3=C(C(=O)NC3=O)C4=CNC5=CC=CC=C54
InChi	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)
InChiKey	LLJJDLHGZUOMQP-UHFFFAOYSA-N
MDL number	MFCD04040031

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 hyporesponsive platelets by enhancing Akt phosphorylation.

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

PubMedID [21345315](#)
