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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

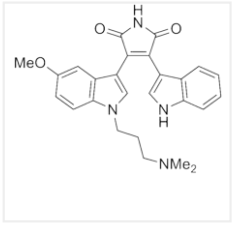
Biological Data

Biological description	Broad spectrum protein kinase C (PKC) inhibitor (IC_{50} values are 7, 7, 6, 10, 60 nM and 20 µM 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.

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*H*-indol-3-yl]-4-(1*H*-indol-3-yl)-1*H*-pyrrole-2,5-dione
Molecular Weight	442.51
Chemical structure	

Molecular Formula	$C_{26}H_{26}N_4O_3$
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

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

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

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