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DATASHEET

Go 6976

Product overview

Name	Go 6976
Cat No	HB0302
Biological action	Inhibitor
Purity	>98%
Description	Potent, selective PKC inhibitor

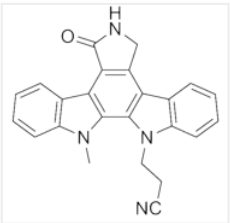
Biological Data

Biological description	Potent and selective protein kinase C (PKC) inhibitor at α and β1 subunits (IC_{50} values are 2.3 and 6.2 nM respectively). Displays no activity at ε, δ, and ζ PKC subunits. Also a protein kinase D (IC_{50} = 20 nM), JAK 2, FLT3, TrkB and TrkA tyrosine kinases inhibitor. Displays antitumor properties.

Solubility & Handling

Storage instructions	-20°C (desiccate)
Solubility overview	Soluble in DMSO
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	5,6,7,13-Tetrahydro-13-methyl-5-oxo-12*H*-indolo[2,3-*a*]pyrrolo[3,4-*c*]carbazole-12-propanenitrile
Molecular Weight	378.43
Chemical structure	
Molecular Formula	$C_{24}H_{18}N_4O$
CAS Number	136194-77-9
PubChem identifier	3501
SMILES	CN1C2=CC=CC=C2C3=C4C(=C5C6=CC=CC=C6N(C5=C31)CCC#N)CNC4=O
InChiKey	VWVYILCFSYNJHF-UHFFFAOYSA-N

References

Gö 6976 is a potent inhibitor of neurotrophin-receptor intrinsic tyrosine kinase.

Behrens MM *et al* (1999) J Neurochem 72(3)
PubMedID 10037462

Gö6976 is a potent inhibitor of the JAK 2 and FLT3 tyrosine kinases with significant activity in primary acute myeloid leukaemia cells.

Grandage VL *et al* (2006) Br J Haematol 135(3)
PubMedID 16956345

Selective inhibition of protein kinase C isozymes by the indolocarbazole Gö 6976.

Martiny-Baron G *et al* (1993) J Biol Chem 268(13)
PubMedID 8486620

Putative conventional protein kinase C inhibitor Gödecke 6976 [12-(2-cyanoethyl)-6,7,12,13-tetrahydro-13-methyl-5-oxo-5H-indolo(2,3-a)pyrrolo(3,4-c)-carbazole] stimulates transglutaminase activity in primary mouse epidermal keratinocytes.

Shapiro BA *et al* (2002) J Pharmacol Exp Ther 302(1)
PubMedID 12065737