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DATASHEET

Bisindolylmaleimide II

Product overview

Name	Bisindolylmaleimide II
Cat No	HB0135
Biological action	Inhibitor
Purity	>97%
Description	Potent PKC inhibitor

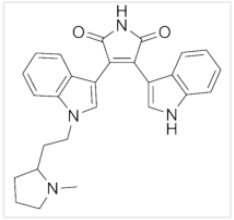
Biological Data

Biological description	Potent protein kinase C (PKC) inhibitor (IC_{50} = 0.10 µM). Displays less activity at protein kinase A (PKA) and pyruvate kinase (PK) (IC_{50} values are 2.0 and 0.70 µM respectively).Also β1.3 subunit of K_v 1.5 channel inhibitor (IC_{50} = 12.4 µM) and non-competitive nicotonic cholinergic receptor antagonist (approx IC_{50} = 0.031 µM).

Solubility & Handling

Storage instructions	-20°C
Solubility overview	Soluble in DMSO (100mM)
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*H*-Indol-3-yl)-4-[1-[2-(1-methyl -2-pyrrolidinyl)ethyl]-1*H*-indol-3-yl]-1*H*-pyrrole-2 ,5-dione
Molecular Weight	438.52
Chemical structure	
Molecular Formula	$C_{27}H_{26}N_4O_2$
CAS Number	137592-45-1
PubChem identifier	2397
SMILES	CN1CCCC1CCN2C=C(C3=CC=CC=C32)C4=C(C(=O)NC4=O)C5=CNC6=CC=CC=C65
InChiKey	LBFDERUQORUFIN-UHFFFAOYSA-N

References

PKC inhibition results in a K_v 1.5 + K_v β1.3 pharmacology closer to K_v 1.5 channels.

Macías A *et al* (2014) Br J Pharmacol

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Chromaffin cell catecholamine secretion: bisindolylmaleimide compounds exhibit novel and potent antagonist effects at the nicotinic cholinergic receptor in pheochromocytoma cells.

Mahata M *et al* (2002) Mol Pharmacol 61(6)
PubMedID 12021395

The bisindolylmaleimide GF 109203X is a potent and selective inhibitor of protein kinase C.

Toullec D *et al* (1991) J Biol Chem 266(24)
PubMedID 1874734