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## DATASHEET

Bisindolylmaleimide IV

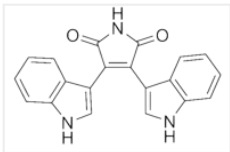
### Product overview

<b>Name</b>	Bisindolylmaleimide IV
<b>Cat No</b>	HB0137
<b>Description</b>	Selective, non-competitive PKC / PKA inhibitor
<b>Biological description</b>	Selective and non-competitive protein kinase C (PKC) inhibitor ( $IC_{50} = 0.1 \mu\text{M}$ ). Also inhibits protein kinase A (PKA) ( $IC_{50} = 2.0 \mu\text{M}$ ). Blocks PLC/PKC signalling to block melatonin-induced potentiation of glycine currents in the retina.
<b>Biological action</b>	Inhibitor
<b>Purity</b>	>98%

### Solubility & Handling

<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.
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### Chemical Data

<b>Chemical name</b>	Arcyriarubin A
<b>Molecular Weight</b>	327.34
<b>Chemical structure</b>	
<b>Molecular Formula</b>	$C_{20}H_{13}N_3O_2$
<b>CAS Number</b>	119139-23-0
<b>PubChem identifier</b>	2399
<b>SMILES</b>	<chem>C1=CC=C2C(=C1)C(=CN2)C3=C(C(=O)NC3=O)C4=CNC5=CC=CC=C54</chem>

### References

#### Inhibitors of protein kinase C. 1. 2,3-Bisarylmaleimides.

Davis PD *et al* (1992) J Med Chem 35(1)

**PubMedID** [1732526](#)

#### Active site inhibitors protect protein kinase C from dephosphorylation and stabilize its mature form.

Gould CM *et al* (2011) J Biol Chem 286(33)

**PubMedID** [21715334](#)

#### Protein kinase C masks nitric oxide synthase activity in vascular smooth muscle under basal conditions.

Kline LW *et al* (2004) J Cardiovasc Pharmacol 43(2)

**PubMedID** [14716218](#)

#### 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

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