

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

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

customercare-usa@m2stage.hellobio.com



DATASHEET

Bisindolylmaleimide III

Product overview

Name	Bisindolylmaleimide III
Cat No	HB0136
Biological action	Inhibitor
Purity	>98%
Description	Selective PKC inhibitor

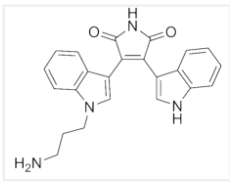
Biological Data

Biological description	Selective protein kinase C (PKC) inhibitor. Competitive NQO ₂ inhibitor ($K_i = 16.5 \mu\text{M}$) and Ste20-related kinase (SLK) inhibitor ($\text{IC}_{50} = 170 \text{ nM}$). Shows inhibitory action at PKC α , MSK1, MAPKAP-K1 β , S6K1 and AMPK. Also CDK2 inhibitor ($\text{IC}_{50} = 2 \mu\text{M}$).
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Solubility & Handling

Solubility overview	Soluble in methanol or 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	BIM III
Molecular Weight	384.43
Chemical structure	
Molecular Formula	$\text{C}_{23}\text{H}_{20}\text{N}_4\text{O}_2$
CAS Number	137592-43-9
PubChem identifier	2398
SMILES	<chem>C1=CC=C2C(=C1)C(=CN2)C3=C(C(=O)NC3=O)C4=CN(C5=CC=CC=C54)CCCN</chem>

References

Specificity and mechanism of action of some commonly used protein kinase inhibitors.

Davies SP *et al* (2000) Biochem J 351(Pt 1)
PubMedID [10998351](#)

Proteome-wide identification of cellular targets affected by bisindolylmaleimide-type protein kinase C inhibitors.

Brehmer D *et al* (2004) Mol Cell Proteomics 3(5)
PubMedID [14769951](#)

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
