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DATASHEET

Bisindolylmaleimide VIII

Product overview

Name	Bisindolylmaleimide VIII
Cat No	HB0141
Biological action	Inhibitor
Purity	>98%
Description	Potent, selective PKC inhibitor

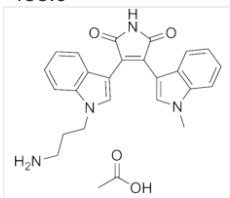
Biological Data

Biological description	Potent and selective protein kinase C inhibitor ($IC_{50} = 158$ nM). Displays selectivity for PKC- α over PKC- β_1 , PKC- β_{II} , PKC- γ and PKC- ϵ (IC_{50} values are 53, 195, 163, 213, 175 nM respectively). Facilitates Fas-mediated apoptosis and enhances DR5 mediated apoptosis. Also CDK2 antagonist ($IC_{50} = 600$ nM).
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Solubility & Handling

Solubility overview	Soluble in DMSO or water
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	Ro 31-7549 acetate
Molecular Weight	458.6
Chemical structure	
Molecular Formula	$C_{24}H_{22}N_4O_2 \cdot C_2H_4O_2$
CAS Number	138516-31-1
PubChem identifier	9868770
SMILES	<chem>CC(=O)O.CN1C=C(C2=CC=CC=C21)C3=C(C(=O)NC3=O)C4=CN(C5=CC=CC=C54)CCCN</chem>

References

Bisindolylmaleimide VIII facilitates Fas-mediated apoptosis and inhibits T cell-mediated autoimmune diseases.

Zhou T *et al* (1999) Nat Med 5(1)

PubMedID [9883838](#)

Isoenzyme specificity of bisindolylmaleimides, selective inhibitors of protein kinase C.

Wilkinson SE *et al* (1993) Biochem J 294 (Pt 2)

PubMedID

8373348

Bisindolylmaleimide VIII enhances DR5-mediated apoptosis through the MKK4/JNK/p38 kinase and the mitochondrial pathways.

Ohtsuka T *et al* (2002) J Biol Chem 277(32)

PubMedID

12034736

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
