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DATASHEET

Rottlerin

Product overview

Name	Rottlerin
Cat No	HB0561
Biological action	Inhibitor
Description	PKC inhibitor

Biological Data

Biological description	Protein kinase C inhibitor ($IC_{50} = 3-6 \mu M$ for PKC- δ). Inhibits cAM-kinase III, PRAK ($IC_{50} = 1.9 \mu M$) and MAPKAP-K2 ($IC_{50} = 5.4 \mu M$). Novel lipoprotein receptor-related protein-6 (LRP6) inhibitor. Also suppresses Wnt/ β -catenin and mTORC1 signalling. Displays cell growth suppressing, apoptosis inducing and anti-angiogenesis properties.
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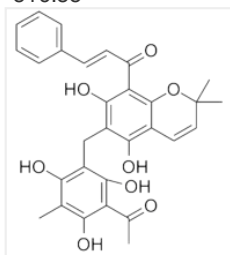
Solubility & Handling

Storage instructions	+4 °C
Solubility overview	Soluble in ethanol (2mM, gentle warming) or DMSO (20mM)
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'-[(8-Cinnamoyl-5,7-dihydroxy-2,2-dimethyl-2H-1-benzopyran-6-yl)methyl]-2',4',6'-trihydroxy-5'-methylacetophenone
Molecular Weight	516.55

Chemical structure



Molecular Formula	$C_{30}H_{28}O_8$
CAS Number	82-08-6
PubChem identifier	5281847
SMILES	<chem>CC1=C(C(=C(C(=C1O)C(=O)C)O)CC2=C(C3=C(C(=C2O)C(=O)/C=C/C4=CC=CC=C4)OC(C=C3)(C)C)O)O</chem>
InChiKey	DEZFNHCVIZBHBI-ZHACJKMWSA-N

References

Rottlerin induces Wnt co-receptor LRP6 degradation and suppresses both Wnt/ β -catenin and mTORC1 signaling in prostate and breast cancer cells.

Lu W *et al* (2014) Cell Signal 26(6)

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

Davies SP *et al* (2000) Biochem J 351(Pt 1)

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Rottlerin, a novel protein kinase inhibitor.

Gschwendt M *et al* (1994) Biochem Biophys Res Commun 199(1)

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Determination of Rottlerin, a Natural Protein Kinases C Inhibitor, in Pancreatic Cancer Cells and Mouse Xenografts by RP-HPLC Method.

Lu QY *et al* (2013) J Chromatogr Sep Tech 4(1)

PubMedID [24482742](#)
