Datasheet

Product overview

Name: Rottlerin
Cat No: HB0561
Short description: PKC inhibitor

Biological description: Protein kinase C inhibitor (IC\textsubscript{50} = 3-6 µM for PKC-δ). Inhibits cAM-kinase III, PRAK (IC\textsubscript{50} = 1.9 µM) and MAPKAP-K2 (IC\textsubscript{50} = 5.4 µM). 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.

Biological action: Inhibitor

Properties

Chemical name: 3’-[8-(Cinnamoyl-5,7-dihydroxy-2,2-dimethyl-2\textsubscript{H}-1-benzopyran-6-yl)methyl]-2’,4’,6’-trihydroxy-5’-methyacetophenone

Molecular Weight: 516.55

Chemical structure:

Molecular Formula: C\textsubscript{30}H\textsubscript{28}O\textsubscript{8}

CAS Number: 82-08-6

PubChem identifier: 5281847

SMILES: CC1=C(C=C(C=C(C(=O)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

InChiKey: DEZFNHCVIZBHI-ZHACJKMWSA-N

Storing and Using Your Product

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.

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


PubMedID: 24607787

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


PubMedID: 10998351

Rottlerin, a novel protein kinase inhibitor.


PubMedID: 8123051

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