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DATASHEET

Phloretin

Product overview

Name	Phloretin
Cat No	HB0500
Biological action	Inhibitor
Purity	>98%
Description	PKC inhibitor

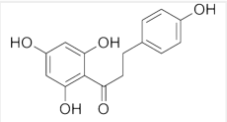
Biological Data

Biological description	Protein kinase C (PKC) inhibitor. PGF_{2a} receptor antagonist (IC_{50} = 16 µM). Inhibits GLUT2 glucose transport. Shows apoptotic, antitumor, antioxidant and immunomodulatory actions.

Solubility & Handling

Solubility overview	Soluble in ethanol or methanol
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

Molecular Weight	274.26
Chemical structure	
Molecular Formula	$C_{15}H_{14}O_5$
CAS Number	60-82-2
PubChem identifier	4788
SMILES	OC1=CC=C(CCC(=O)C2=C(O)C=C(O)C=C2O)C=C1

References

Immunomodulation of phloretin by impairing dendritic cell activation and function.

Lin CC *et al* (2014) Food Funct 5(5)
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Phloretin-induced apoptosis in B16 melanoma 4A5 cells and HL60 human leukemia cells.

Kobori M *et al* (1999) Biosci Biotechnol Biochem 63(4)
PubMedID 10361685

Phloretin as an antagonist of prostaglandin F2 alpha receptor in cultured rat astrocytes.

Kitanaka J *et al* (1993) J Neurochem 60(2)

PubMedID 8093482

In vitro and in vivo study of phloretin-induced apoptosis in human liver cancer cells involving inhibition of type II glucose transporter.

Wu CH *et al* (2009) Int J Cancer 124(9)
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