Datasheet

Product overview

Name Phloretin
Cat No HB0500
Short description PKC inhibitor
Biological description Protein kinase C (PKC) inhibitor. PGF$_{2\alpha}$ receptor antagonist (IC$_{50}$ = 16 µM). Inhibits GLUT2 glucose transport. Shows apoptotic, antitumor, antioxidant and immunomodulatory actions.
Biological action Inhibitor
Purity >98%

Properties

Molecular Weight 274.26
Chemical structure

Molecular Formula C$_{15}$H$_{14}$O$_{5}$
CAS Number 60-82-2
PubChem identifier 4788
SMILES OC=C=CC(C(C(O)C2=C(O)C=C(O)C=C2O)C=C1

Storing and Using Your Product

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.

References for Phloretin

Immunomodulation of phloretin by impairing dendritic cell activation and function.
PubMedID: 24651121
Phloretin-induced apoptosis in B16 melanoma 4A5 cells and HL60 human leukemia cells.
PubMedID: 10361685

Phloretin as an antagonist of prostaglandin F2 alpha receptor in cultured rat astrocytes.
PubMedID: 8093482

In vitro and in vivo study of phloretin-induced apoptosis in human liver cancer cells involving inhibition of type II glucose transporter.
PubMedID: 19123483