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DATASHEET

Calphostin C

Product overview

Name	Calphostin C
Cat No	HB0160
Alternative names	UCN 1028C PKF 115-584
Biological action	Inhibitor
Purity	>95%
Description	Potent, selective PKC inhibitor. Also antagonizes the Tcf/ β -catenin complex

Images



Biological Data

Biological description	Potent and selective photo-activated PKC inhibitor ($IC_{50} = 50$ nM). Antagonizes the Tcf/ β -catenin complex. Inhibits glioma tumour cell proliferation and protects the myocardium against ischemic injury.
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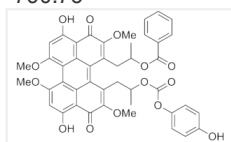
Solubility & Handling

Storage instructions	+4 °C (desiccate)
Solubility overview	Soluble in DMSO or ethanol
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	(1 <i>R</i>)-2-[12-[(2 <i>R</i>)-2-(Benzoyloxy)propyl]-3,10-dihydro-4,9-dihydroxy-2,6,7,11-tetramethoxy-3,10-dioxo-1-perylene]-1-methylethylcarbonic acid 4-hydroxyphenyl ester
Molecular Weight	790.76

Chemical structure



Molecular Formula	$C_{44}H_{38}O_{14}$
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CAS Number	121263-19-2
PubChem identifier	2533
SMILES	<chem>CC(CC1=C(C(=C2C(=O)C=C(C3=C4C(=CC(=O)C5=C(C(=C(C(=C45)C1=C32)CC(C)OC(=O)OC6=CC=C(C=C6)O)OC)O)OC)OC)OC(=O)C7=CC=CC=C7</chem>
InChiKey	YYMCVDNIIFNDJK-BEQMOXJMSA-N

References

The effect of calphostin C, a potent photodependent protein kinase C inhibitor, on the proliferation of glioma cells in vitro.

Pollack IF *et al* (1997) J Neurooncol 31(3)

PubMedID [9049854](#)

The role of protein kinase in C ischemic/reperfused preconditioned isolated rat hearts.

Tosaki A *et al* (1996) J Cardiovasc Pharmacol 28(5)

PubMedID [8945687](#)

In vitro effects of a small-molecule antagonist of the Tcf/ β -catenin complex on endometrial and endometriotic cells of patients with endometriosis.

Matsuzaki S *et al* (2013) PLoS One 8(4)

PubMedID [23626717](#)
