

Calphostin C PRODUCT DATA SHEET

issue date 01/06/2020

Product Name:	Calphostin C
Product Number:	C161
CAS Number:	121263-19-2
Molecular Formula:	C ₄₄ H ₃₈ O ₁₄
Molecular Weight:	790.8
Appearance:	Dark Red Solid
Storage Conditions:	-20°C
Description:	Calphostin C (PKF115-584) is a perylenequinione isolated from the fungus, Cladosporium cladosporioides and inhibits cell proliferation and induces apoptosis in vitro.
	Calphostin C is soluble in ethanol, methanol, DMF and DMSO.
Mechanism of Action:	Calphostin C is a potent and specific inhibitor of protein kinase C (PKC), with inhibition being light dependent. Calphostin C is an antagonist of Tcf4/b-catenin signalling, inhibiting the expression of survivin and inducing apoptosis in several tumor cell lines.
References:	Calphostins (UCN-1028), novel and specific inhibitors of protein kinase C. I. Fermentation, isolation, physico-chemical properties and biological activities. Kobayashi E. et al., J. Antibiotics, 1989, 42, 1470.
	Calphostins, novel and specific inhibitors of protein kinase C. II. Chemical structures. Kobayashi E. et al. , J. Antibiotics, 1989, 42, 1475.
	Inhibition of protein kinase C by calphostin C is light-dependent. Bruns R.F. et al. , Biochem. Biophys. Res. Commun., 1991, 176, 288.
	Growth inhibition induced by Ro 31-8220 and calphostin C in human glioblastoma cell lines is associated with apoptosis and inhibition of CDC2 kinase. Begemann M. et al. , Anticancer Res., 1998, 18, 3139.
	Small-molecule antagonists of the oncogenic Tcf/beta-catenin protein complex. Lepourcelet M. et al. Cancer Cell. 2004, 5, 91.

If you need any help, contact us: info@toku-e.com. Find more information on: www.toku-e.com/