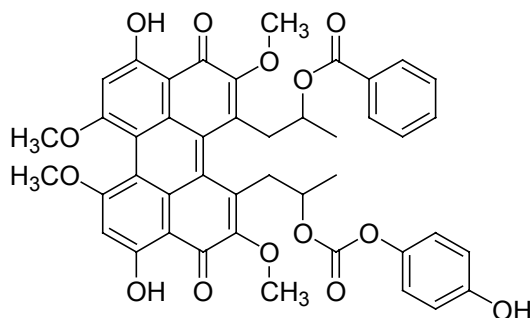


## Calphostin C

Code: **BIA-C1014**

Pack sizes: **0.1 mg, 0.5 mg**



Synonyms : **Antibiotic UCN 1028 C, UCN-1028 C**

## Specifications

CAS # : **121263-19-2**  
Molecular Formula : **C<sub>44</sub>H<sub>38</sub>O<sub>14</sub>**  
Molecular Weight : **790.8**  
Source : ***Cladosporium cladosporioides* MST-FP1798**  
Appearance : **Dark red lyophilisate**  
Purity : **> 95% by HPLC**  
Long Term Storage : **+4°C light sensitive**  
Solubility : **Soluble in ethanol, methanol, DMF or DMSO**

## Application Notes

Calphostin C is a perylenequinone isolated from the fungus, *Cladosporium cladosporioides*. It is a potent and specific inhibitor of protein kinase C, with inhibition being light dependent. Calphostin C has also been shown to inhibit cell proliferation and induce apoptosis *in vitro*.

## References

1. 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.
2. Inhibition of protein kinase C by calphostin C is light-dependent. Bruns R.F. *et al. Biochem. Biophys. Res. Commun.* **1991**, 176, 288.
3. 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. Antibiot.* **1989**, 42, 1470.
4. Calphostins, novel and specific inhibitors of protein kinase C. II. Chemical structures. Kobayashi E. *et al. J. Antibiot.* **1989**, 42, 1475.