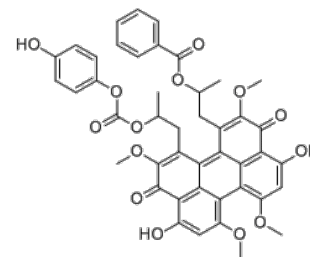


**Product Name** : Calphostin C  
**Cat. No.** : PC-70263  
**CAS No.** : 121263-19-2  
**Molecular Formula** : C<sub>44</sub>H<sub>38</sub>O<sub>14</sub>  
**Molecular Weight** : 790.76  
**Target** : PKC  
**Solubility** : 10 mM in DMSO



## Biological Activity

Calphostin C (UCN 1028C, PKF115-584) is a potent, selective and photo-dependent inhibitor of **PKC** with IC<sub>50</sub> of 50 nM. Calphostin C displays >1,000-fold selectivity over other protein kinases such as cAMP-dependent protein kinase and tyrosine-specific protein kinase.

Calphostin C inhibits cell growth and promotes apoptosis in HeLa S3 and MCF-7 cells with IC<sub>50</sub> of 0.23 and 0.18 μM, respectively.

Calphostin C also inhibits **phospholipase D1** and D2 (IC<sub>50</sub>=100 nM).

Calphostin C also blocks **β-catenin/Tcf** transcriptional activity.

## References

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Kobayashi E, et al. J Antibiot (Tokyo). 1989 Oct;42(10):1470-4.

Sciorra VA, et al. Biochemistry. 2001 Feb 27;40(8):2640-6.

**Caution: Product has not been fully validated for medical applications. Lab Use Only!**

E-mail: tech@probechem.com