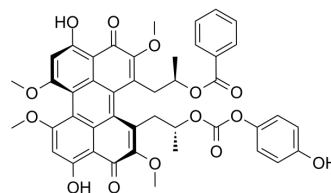


## Calphostin C

<b>Cat. No.:</b>	HY-105416		
<b>CAS No.:</b>	121263-19-2		
<b>Molecular Formula:</b>	C <sub>44</sub> H <sub>38</sub> O <sub>14</sub>		
<b>Molecular Weight:</b>	790.76		
<b>Target:</b>	Antibiotic; PKC; Apoptosis		
<b>Pathway:</b>	Anti-infection; Epigenetics; TGF-beta/Smad; Apoptosis		
<b>Storage:</b>	Powder	-20°C	3 years
	In solvent	-80°C	6 months
		-20°C	1 month



### BIOLOGICAL ACTIVITY

#### Description

Calphostin C is a potent and specific inhibitor of protein kinase C. Calphostin C is an antitumor antibiotic. Calphostin C has 1000 times more inhibitory to protein kinase C with an IC<sub>50</sub> of 0.05 μM than other protein kinases. Calphostin C induces apoptosis in some tumor cell lines. Calphostin C has potent cytotoxic activity and antitumor activity<sup>[1]</sup>.

#### IC<sub>50</sub> & Target

protein kinase C<sup>[1]</sup>

### REFERENCES

[1]. Kobayashi E, et al. Calphostin C (UCN-1028C), a novel microbial compound, is a highly potent and specific inhibitor of protein kinase C. *Biochem Biophys Res Commun.* 1989;159(2):548-553.

[2]. Kobayashi E, et al. Calphostins (UCN-1028), novel and specific inhibitors of protein kinase C. I. Fermentation, isolation, physico-chemical properties and biological activities. *J Antibiot (Tokyo).* 1989;42(10):1470-1474.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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