



LKT Laboratories, Inc.

Calphostin C

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Product Information

Product ID C0344

CAS No. 121263-19-2

Chemical Name

Synonym UCN-1028c

Formula $C_{44}H_{38}O_{14}$

Formula Wt. 790.76

Melting Point

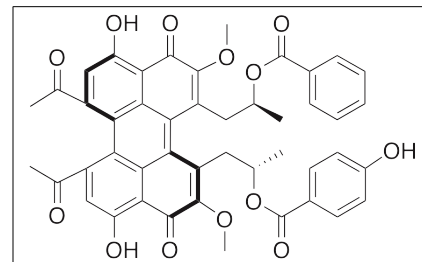
Purity $\geq 95\%$

Solubility Soluble in DMSO, ethanol,
or DMF.

Store Temp $-20^{\circ}C$

Ship Temp Ambient

Description Calphostin C is an inhibitor of PKC found in *Cladosporium*. Calphostin C exhibits anticancer activity, inducing apoptosis, increasing JNK and caspase activation, and stimulating PARP cleavage in breast cancer cells.



Bulk quantities available upon request

Product ID	Size
C0344	100 μg

References De Vita F, Riccardi M, Malanga D, et al. PKC-dependent phosphorylation of p27 at T198 contributes to p27 stabilization and cell cycle arrest. *Cell Cycle*. 2012 Apr 15;11(8):1583-92. PMID: 22441823.

Robitaille K, Daviau A, Lachance G, et al. Calphostin C-induced apoptosis is mediated by a tissue transglutaminase-dependent mechanism involving the DLK/JNK signaling pathway. *Cell Death Differ*. 2008 Sep;15(9):1522-31. PMID: 18497756.

Kobayashi E, Ando K, Nakano H, 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 Oct;42(10):1470-4. PMID: 2478514.

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.