



LKT Laboratories, Inc.

Calphostin C

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Product Information

Product ID C0344

CAS No. 121263-19-2

Chemical Name

Synonym UCN-1028c

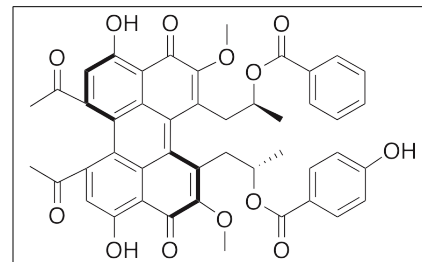
Formula $C_{44}H_{38}O_{14}$

Formula Wt. 790.76

Melting Point

Purity $\geq 95\%$

Solubility Soluble in DMSO, ethanol, or DMF.



Pricing and Availability

Bulk quantities available upon request

Product ID	Size	List Price
C0344	100 μ g	\$370.90
C0344	1 mg	\$1854.10

Store Temp -20°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.

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.