**Product Number/Sizes**

BML-EI198-1000  1 mg  
BML-EI198-0100  100 µg

Replaces Prod. #: ALX-350-027

Potent and selective inhibitor of the protein kinase C (PKC). Inhibition is via interaction with the regulatory DAG binding site and phorbol ester binding site. Inhibition of PKC has been found to be light dependent. At higher concentrations inhibits myosin light chain kinase, cAMP-dependent protein kinase, protein kinase G, pp60src protein tyrosine kinase and DAG kinase. It also inhibits Phospholipase D1 and D2. Induces apoptotic DNA fragmentation and cell death. Kills breast cancer cells. Has antiviral potential. Inhibits cardiac L-type Ca++ channels. Cell permeable.

**Product Specifications**

**Alternative Name:** UCN-1028C  
**FORMULA:** C_{44}H_{30}O_{14}  
**MW:** 790.6  
**PURITY:** ≥99% (TLC)  
**APPEARANCE:** Dark red solid.  
**CAS:** 121263-19-2  
**SOLUBILITY:** Soluble in DMSO or dimethyl formamide; insoluble in water.  
**LONG TERM STORAGE:** +4°C  
**USE/STABILITY:** Stable for at least 1 year after receipt when stored, as supplied, at 0-4°C. Stock solutions are stable for up to 3 months at -20°C.  
**HANDLING:** Protect from light.

**Product Literature References**


Calphostin C, a widely used protein kinase C inhibitor, directly and potently blocks L-type Ca channels H.C. Hartzell & A. Rinderknecht Am. J. Physiol. 270 C1293 (1996)


Potent and specific inhibitors of protein kinase C of microbial origin T. Tamaoki and H. Nakano Biotechnology 8 732 (1990)
Calphostin C (UCN-1028C), a novel microbial compound, is a highly potent and specific inhibitor of protein kinase C E. Kobayashi, et al. BBRC 159 548 (1989)

Background/Technical Information
Please click here for the comprehensive product datasheet.

Revised 22-Feb-12