

CERTIFICATE OF ANALYSIS

PRODUCT:	Calyculin A C ₅₀ H ₈₁ N ₄ O ₁₅ P, M.W. 1009.2, CAS# [101932-71-2]
PRODUCT NUMBER:	C-1031
LOT NUMBER:	B1264A
APPEARANCE:	Colorless oil
SOLUBILITY:	Soluble in DMSO, 100% ethanol and dimethyl formamide
PURITY (TLC):	≥ 98%
PRODUCT DESCRIPTION:	Isolated from <i>Discodermia calyx</i> . Inhibitor of PP1 and PP2A. Potent cell permeable inhibitor with high specificity for protein phosphatase 1 (PP1) and 2A (PP2A). Inhibits p130cas tyrosine phosphorylation. Enhances the phosphorylation level of NF-κB. Affects intracellular signalling processes that require 14-3-3. Potent non-phorbol type tumor promoter. Prevents γ-radiation induced apoptosis. Stimulates contraction of smooth muscle, induces intracellular protein phosphorylation in cultured human keratinocytes. Inhibits apoptosis. No effect on acid or alkaline phosphatases at 1μM. Treatment of MCF7 cells (breast cancer line), with 100nM, produced rapid (< 20 min.) but incomplete inhibition of both PP1 (~ 60%) and PP2A (~ 70%).
USE/STABILITY:	May be subject to isomerization when in solution. Biological activity is not affected by isomerization.

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STORAGE & HANDLING:

Keep cool and dry at -20°C.

PROTECT FROM LIGHT and MOISTURE!

WARNING: MAY BE CARCINOGENIC! TOXIC!

CAUTION: For laboratory research & scientific manufacturing use only. Not for human or drug use. The pharmacological and toxicological properties of this product have not been fully investigated. Use caution when handling. Do not use this compound if you are not fully trained or are unaware of the hazards involved.

Verified: KT