

Catalog # 10-2169

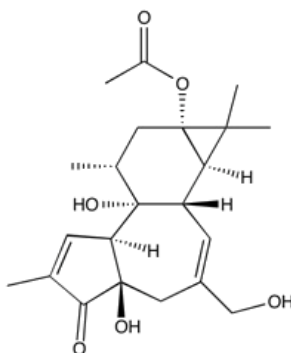
Prostratin

CAS# 60857-08-1

12-Deoxyphorbol 13-Acetate; dPAC

13-O-Acetyl-12-deoxyphorbol

Lot # FBS2089



A terpenoid, non-tumorigenic PKC activator isolated from *Pimelia prostrata*.^{1,2} Induces differentiation of human myeloid leukemia cells and potentiates differentiation by chemotherapeutic agents.³ Induces reactivation of latent HIV.⁴ Exerts a proliferative effect on neural progenitor cells *in vitro* and *in vivo*.⁵

- 1) Cashmore *et al.* (1976), *The structure of prostratin: a toxic tetracyclic diterpene ester from Pimelea Prostrata*; Tetrahedron Lett., **17** 1737
- 2) Miana *et al.* (2015), *Prostratin: An Overview*; Mini Rev. Med. Chem., **15** 1122
- 3) Shen *et al.* (2015), *The protein kinase C agonist prostratin induces differentiation of human myeloid leukemia cells and enhances cellular differentiation by chemotherapeutic agents*; Cancer Lett., **356 (2 Pt. B)** 686
- 4) Biancotto *et al.* (2004), *Dual role of prostratin in inhibition of infection and reactivation of human immunodeficiency virus from latency in primary blood lymphocytes and lymphoid tissue*; J. Virol., **78** 10507
- 5) Geribaldi-Doldan *et al.* (2015), *12-dePKC activation*; Int. J. Neuropsychopharmacol., **19** pyv085

PHYSICAL DATA

Molecular Weight:	390.47
Molecular Formula:	C ₂₂ H ₃₀ O ₆
Purity:	99% by HPLC
	NMR: (Conforms)
Solubility:	DMSO (up to 30 mg/ml)
Physical Description:	Off-white solid
Storage and Stability:	Store as supplied at -20°C for up to 1 year from the date of purchase. Solutions in DMSO may be stored at -20°C for up to 1 month.

Materials provided by Focus Biomolecules are for laboratory research use only and are not intended for human or veterinary applications.