



Prostratin

Data Sheet

Catalog Number:	MC11046	Product Type:	Small Molecule
Bio-Activity:	PKC activator; Promotes neuro-regeneration	CAS #:	60857-08-1
Research Categories:	Neuroscience, cancer	Chemical Name:	13-O-Acetyl-12-deoxyphorbol
Solubility:	Soluble in DMSO (up to 30 mg/ml).	Molecular Formula:	C ₂₂ H ₃₀ O ₆
Purity:	> 98%	Molecular Weight:	390.47
Format:	Wax	Ship Temp:	Ambient
Storage:	-20°C		

Application Notes

Description/Data:

A terpenoid, non-tumorigenic PKC activator isolated from Pimelia prostrate [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].

References:

- 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

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