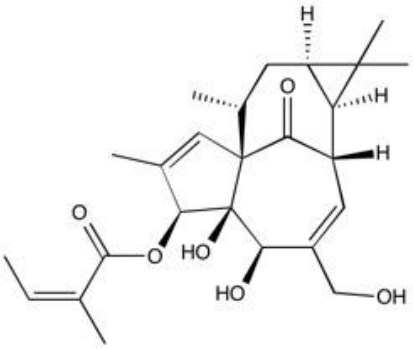
Catalog # 10-1244

Ingenol-3-angelate

CAS# 75567-37-2

PEP-005

Lot # X101147



Selective activator of protein kinase C which displays antileukemic activity mediated via PKCδ.[1] In contrast, it provides a strong survival signal to resting and activated human T cells via activation of PKC and downstream activation of NFκB.[2] Treatment of subcutaneous tumors results in anti-cancer CD8 T cells, also displays adjuvant activity and synergizes with cancer immunotherapies.[3] Induces senescence-like growth arrest in solid tumor cells.[4] Inhibits HIV-1 infection at an early pathway of viral entry.[5]

1) Hampson *et al*. (2005), *PEP005, a selective small-molecule activator of protein kinase C, has potent antileukemic activity mediated via the delta isoform of PKC*; Blood, **106** 1362
2) Lee *et al*. (2010), *Novel antileukemic compound ingenol 3-angelate inhibits T cell apoptosis by activating protein kinase Ctheta*; J. Biol. Chem., **285** 23889
3) Le *et al*. (2009), *Immunostimulatory cancer chemotherapy using local ingenol-3-angelate and synergy with immunotherapies*; Vaccine, **27** 3053
4) Mason *et al*. (2010), *The induction of senescence-like growth arrest by protein kinase C-activating diterpene esters in solid tumor cells*; Invest. New Drugs, **28** 575
5) Warrilow *et al*. (2006), *HIV type 1 inhibition by protein kinase C modulatory compounds*; AIDS Res. Hum. Retroviruses, **22** 854

PHYSICAL DATA

Molecular Weight:	430.53
Molecular Formula:	$C_{25}H_{34}O_6$
Purity:	98% by TLC NMR: (Conforms)
Solubility:	DMSO (up to 5 mg/ml) or Ethanol (up to 4 mg/ml)
Physical Description:	White solid
Storage and Stability:	Store as supplied desiccated at -20°C for up to 1 year from the date of purchase. Solutions in DMSO or ethanol may be stored at -20°C for up to 1 month.

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