

Product Name: PPAHV

Catalog No.: 1466

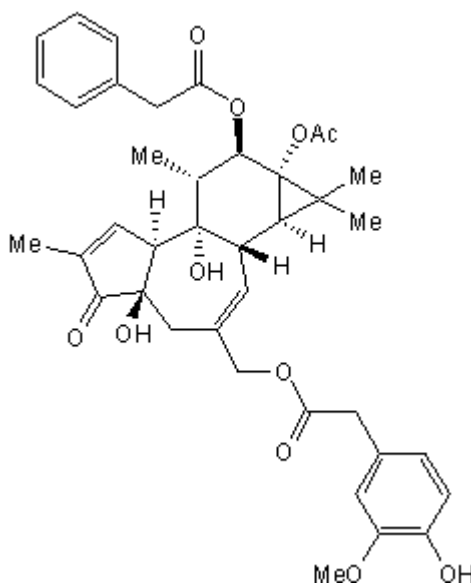
Batch No.: 2

CAS Number: 175796-50-6

IUPAC Name: [(1*aR*,1*bS*,4*aR*,7*aS*,7*bS*,8*R*,9*R*,9*aS*)-9*a*(acetyloxy)-1*a*,1*b*,4,4*a*,5,7*a*,7*b*,8,9,9*a*-decahydro-4*a*,7*b*-dihydroxy-1,1,6,8-tetramethyl-5-oxo-9-[phenylacetyl]oxy]-1*H*-cyclopropa[3,4]benz[1,2-*e*]azulen-3-yl)methyl ester benzeneacetic acid

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:	C ₃₉ H ₄₄ O ₁₁
Batch Molecular Weight:	688.77
Physical Appearance:	Colourless lyophilised solid
Solubility:	Soluble in DMSO Soluble in ethanol
Storage:	Desiccate at -20°C
Batch Molecular Structure:	



2. ANALYTICAL DATA

TLC:	R _f = 0.5 (Ethyl acetate:Hexane [3:2])
HPLC:	Shows >98.9% purity

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Description:

Non-pungent vanilloid TRPV1 (VR1) receptor agonist ($K_i = 3.1 \mu\text{M}$) that displays non-cooperative binding. Induces apoptosis via a non-VR1 mechanism in Jurkat cells and causes vasoconstriction in vivo.

Physical and Chemical Properties:

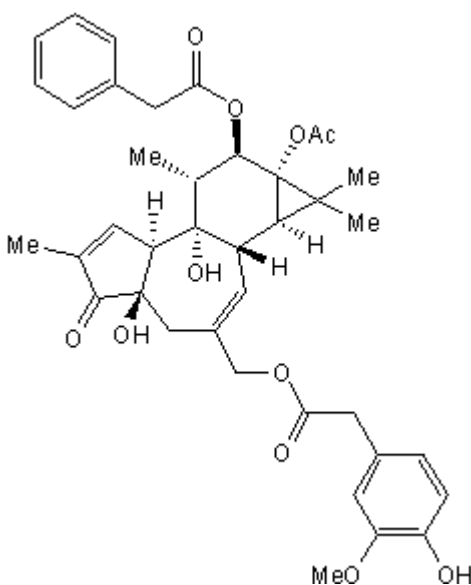
Batch Molecular Formula: $\text{C}_{39}\text{H}_{44}\text{O}_{11}$

Batch Molecular Weight: 688.77

Physical Appearance: Colourless lyophilised solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Desiccate at -20°C

Solubility & Usage Info:

Soluble in DMSO
Soluble in ethanol

This product may be supplied in a sealed glass ampoule. Please refer to the Tocris catalogue for opening instructions.

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a $45\text{-}60^{\circ}\text{C}$ water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

Other Information:

This product is supplied as a lyophilised solid and may be very hard to visualise. Solutions should be made by adding solvent directly to the vial. The vial should then be vortexed vigorously to ensure the product has completely dissolved

References:

Szallasi et al (1996) A novel agonist, phorbol 12-phenylacetate 13-acetate 20-homovanillate, abolishes positive cooperativity of binding by the vanilloid receptor. *Eur.J.Pharmacol.* **299** 221. PMID: 8901026.

Griffiths et al (2000) Functional and desensitizing effects of the novel synthetic vanilloid-like agent 12-phenylacetate 13-acetate 20-homovanillate (PPAHV) in the perfused rat hindlimb. *Br.J.Pharmacol.* **131** 1408. PMID: 11090114.

Macho et al (2000) Phorboid 20-homovanillates induce apoptosis through a VR1-independent mechanism. *Chem.Biol.* **7** 483. PMID: 10903936.

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