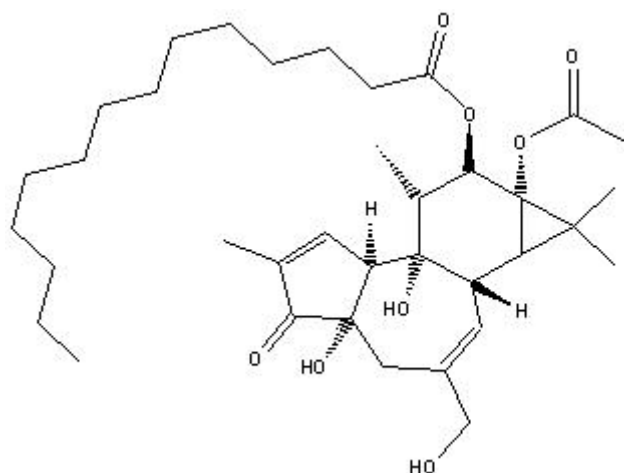


TECHNICAL INFORMATION

Catalog Number: 158982

4 alpha-Phorbol 12-myristate 13-acetate

Structure:



Molecular Formula: C₃₆H₅₆O₈

Molecular Weight: 616.8

CAS # 63597-44-4

Synonyms: 4 a-PMA; 4a-TPA; 4a-12-o-Tetradecanoylphorbol 13-acetate

Physical Appearance: Clear or whitish film adhered to inside of vial

Solubility: Highly soluble in DMSO. Also soluble in methanol, abs. ethanol, chloroform or ethylacetate.

Stock solution cannot be made in aqueous media. Compound must be dissolved in an organic solvent (e.g. DMSO) prior to dilution into aqueous media. Add calculated volume of organic solvent to vial to prepare concentrated stock solution. Intermediate dilutions into the same organic solvent are recommended prior to final dilution into aqueous media.

References:

- Fischer, et al., "4-beta- and 4-alpha-12-O-Tetradecanoylphorbol-13-acetate elicit arachidonate release from epidermal cells through different mechanisms." *Cancer Res.*, **v. 51**, 850-856 (1991).
- Nichols, et al., "Phorbol ester enhancement of neurotransmitter release from rat brain synaptosomes." *J. Neurochem.*, **v. 48**, 615-621 (1987).
- Van Durrent, et al., "Effects of structural changes on the tumor-promoting activity of phorbol myristate acetate on mouse skin." *Cancer Res.*, **v. 39**, 2644-2646 (1979).