



LKT Laboratories, Inc.

Phorbol-12-myristate-13-acetate

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Product Information

Product ID P2857

CAS No. 16561-29-8

Chemical Name 12-Tetradecanoyl phorbol-13-acetate

Synonym TPA, PMA, Tetradecanoylphorbol acetate, 4beta-Phorbol 12-myristate 13-acetate, Phorbol ester

Formula C₃₆H₅₆O₈

Formula Wt. 616.84

Melting Point 50-70 °C

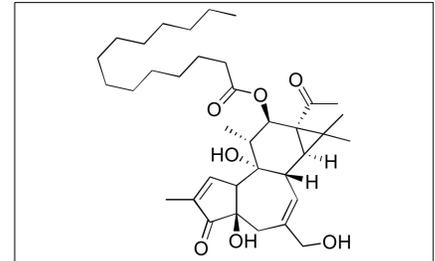
Purity ≥98%

Solubility Soluble in DMSO, methanol, ethanol, ethyl acetate, or chloroform. Insoluble in water or aqueous buffer.

Store Temp -20 °C

Ship Temp Ambient

Description Phorbol-12-myristate-13-acetate (PMA) activates PKC and induces DNA damage. PMA exhibits pro-inflammatory, carcinogenic, and cytotoxic activities. This compound is often used in research models as a tumor promoter.



Bulk quantities available upon request

Product ID	Size
P2857	1 mg
P2857	5 mg

References Poachanukoon O, Koontongkaew S, Monthanapisut P, et al. Macrolides attenuate phorbol ester-induced tumor necrosis factor- α and mucin production from human airway epithelial cells. *Pharmacology*. 2014;93(1-2):92-9. PMID: 24556631.

Oskoueian E, Abdullah N, Ahmad S. Phorbol esters isolated from *Jatropha meal* induced apoptosis-mediated inhibition in proliferation of Chang and Vero cell lines. *Int J Mol Sci*. 2012 Oct 24;13(11):13816-29. PMID: 23203036.

Colombo D, Tringali C, Franchini L, et al. Glycoglycerolipid analogues inhibit PKC translocation to the plasma membrane and downstream signaling pathways in PMA-treated fibroblasts and human glioblastoma cells, U87MG. *Eur J Med Chem*. 2011 May;46(5):1827-34. PMID: 21388717.

Birnboim HC. Factors which affect DNA strand breakage in human leukocytes exposed to a tumor promoter, phorbol myristate acetate. *Can J Physiol Pharmacol*. 1982 Nov;60(11):1359-66. PMID: 6295575.

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.