

P-1680 Phorbol 12-Myristate 13-Acetate, >99.5%

[PMA] [TPA] [Cocarcinogen A1] [12-O-Tetradecanoyl-phorbol 13-Acetate]

M.W. 616.84

$C_{36}H_{56}O_8$

[16561-29-8] M.I.
RTECS: GZ0630000

M.I. 12: 7487

WARNING: Highly irritant to skin and mucous membranes. **SPECIAL HAZARD:** TUMOR PROMOTER. Gloves and mask should be worn when using this compound. Care must be taken to prevent contact through all routes of exposure.

Storage: Store at or below -20 °C. **Solubility:** Soluble in DMSO or ethanol. **Disposal:** A

- This is the most commonly used phorbol ester. It binds to and activates protein kinase C, causes an extremely wide range of effects in cells and tissues, and is a very potent mouse skin tumor promoter. Blumberg, P.M. *CRC Crit. Rev. Toxicol.* **8**: 153-197 and 199-234 (1980).
- Although PMA is quite toxic, it has shown anti-leukemic and anti-neutopenic activity in humans. Han, Z.T. *et al. Proc. Natl. Acad. Sci. USA* **95**: 5357-5361 (1998) and *Proc. Natl. Acad. Sci. USA* **95**: 5362-5365 (1998).
- Beginning with our lot #F-151, we now guarantee purity of 99.5% or greater for this product as measured by HPLC at 254nm.
- Please request Technical Note #14 for additional information.

