

## Phorbol 12-myristate 13-acetate

**Cat:** P6741

**Specification:** 1mg /5mg

**Storage:** Store at -20°C, avoid light, and it is valid for 2 years.

### Product Information

**CAS:** 16561-29-8

**English name:** Phorbol 12-myristate 13-acetate

**Alias:** PMA, TPA, Phorbol ester, croton oil.

**Appearance (Character):** Crystalline solid

**Source:** Penicillium mold

**Chemical Name:** 12-O-Tetradecanoylphorbol-13-acetate

**Molecular Formula:** C<sub>36</sub>H<sub>56</sub>O<sub>8</sub>

**Molecular Weight:** 616.8

**Purity:** ≥98%

**Solubility:** 10mg/ml in DMSO

### Introduction

PMA (Phorbol 12-myristate 13-acetate) is a widely used phorbol ester activator of Protein Kinase C (PKC) in both in vitro and in vivo experiments. PMA binds to PKC and activates its function, exhibiting a very broad spectrum of inhibition in cells and tissues.

PMA can inhibit Fas-induced apoptosis but can also induce apoptosis in HL-60 cells. PMA is a highly potent tumor promoter that can facilitate the formation of skin tumors in mice. Despite its strong toxicity, PMA has shown anti-leukemia and anti-neutropenia activity in humans.

### Instructions for use(*for reference only*):

The specific concentration of PMA should be determined according to relevant literature and optimized based on individual experimental conditions (such as the purpose of the experiment, cell type, and culture characteristics).

This product may not be suitable for inducing differentiation of THP-1 cells into macrophages.

### Note

1. Unless otherwise specified, the biochemical reagents produced by our company are generally non-sterile packaged. If they are to be used for cell experiments, please conduct pretreatment in advance.
2. Once dissolved, please store the solution in separate containers to avoid product degradation caused by repeated freezing and thawing.
3. The product information is for reference only. If you have any questions, please call 400-968-6088 for consultation.
4. The products are all for scientific research use only. Do not use it for medical, clinical diagnosis

or treatment, food and cosmetics, etc. Do not store them in ordinary residential areas.

5. For your safety and health, please wear laboratory clothes, disposable gloves and masks to operate.

**Related Products:***IP1010**Phorbol 12-Myristate 13-Acetate*