

LC Laboratories

November 20, 2019

Almost All PMA (TPA), PDBu and Prostratin Used in Laboratory Research is Made by LC Laboratories

Although most researchers who use **PMA** (Phorbol 12-Myristate 13-Acetate; TPA), **PDBu** (Phorbol 12,13-Dibutyrate) or **Prostratin** (12-Deoxyphorbol 13-Acetate) might not realize it, LC Labs has manufactured almost all of these compounds used in laboratory research since 1980.

Over the years, we have provided more than **330,000 vials of PMA, >35,000 vials of PDBu** and **thousands of vials of Prostratin** to the worldwide biomedical research community.

Experimental results from more than 10,000 labs, as reported in thousands of peer-reviewed journal articles, have shown LC Labs' PMA, PDBU and Prostratin to be extremely reliable reagents for *in vitro* and *in vivo* studies.

Although some researchers buy these three compounds directly from LC Labs, historically vast majority have been provided through more than 50 LC Labs distributors (who sell under the "LC Laboratories" label) and resellers (who buy our phorbol esters and sell them under their own labels, not ours).

These distributors and resellers include essentially all of the major worldwide biochemical vendors, along with numerous smaller vendors.

We recently counted about 70 vendors worldwide who offer PMA. Of these, at least 15 offer PMA that is not sourced from LC Labs. When we tested PMA from a random sample of six such vendors, all claiming >99% purity, the actual purities we found were only **95.3 - 97%** (see "**PMA (TPA) Purity: HPLC Tests Show Six Vendors Have Incorrect Purity Claims for Their PMA**").

Given that a substantial majority of the ~30 known proteins containing a C1 domain are known to bind phorbol esters [see, e.g., J. Lipid Res. **50**: S299-S304 (2009) and references cited therein], the low purity of PMA from these vendors is a major experimental concern.

If it is convenient for your lab to buy PMA directly from LC Labs, you can save a lot of money without worrying about quality -- we offer the highest-purity, lowest-priced PMA available worldwide. PMA from other vendors typically costs two- to five-fold more than our >99.5% pure PMA.

Free Shipping and Handling to the U.S. and 32 Other Countries.

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

1 mg.....\$ 26
5 mg.....\$ 98
10 mg.....\$ 169
25 mg.....\$ 339
100 mg.....\$ 1,220

P-4833 Phorbol 12,13-Dibutyrate, >99%

1 mg.....\$ 39
5 mg.....\$ 121
10 mg.....\$ 215

P-4462 Prostratin, >99%

1 mg.....\$ 59
5 mg.....\$ 247

10 mg.....\$ 435
25 mg.....\$ 925

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