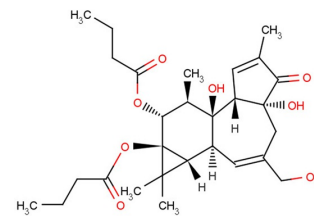


## Phorbol 12,13-dibutyrate

## Chemical Properties

CAS No.:	37558-16-0
Formula:	C <sub>28</sub> H <sub>40</sub> O <sub>8</sub>
Molecular Weight:	504.61
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



## Biological Description

Description	Phorbol 12,13-dibutyrate is a PKC activator. It also is a potent skin tumor promoter.
Targets(IC <sub>50</sub> )	PKC: None
In vitro	Phorbol 12,13-dibutyrate (1 mM) activates PKC. It also inhibited Na/K-ATPase transport activity in OK cells[3].

## Solubility Information

Solubility	DMSO: 125 mg/mL (247.72 mM) ( < 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.982 mL	9.909 mL	19.817 mL
5 mM	0.396 mL	1.982 mL	3.963 mL
10 mM	0.198 mL	0.991 mL	1.982 mL
50 mM	0.04 mL	0.198 mL	0.396 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

## Reference

1. Singh J, et al. Immunocytochemical evidence for PDBu-induced activation of RhoA/ROCK in human internal anal sphincter smooth muscle cells. *Am J Physiol Gastrointest Liver Physiol.* 2011 Aug;301(2):G317-25.
2. Szallasi Z, et al. Dissociation of phorbol esters leads to immediate redistribution to the cytosol of protein kinases C alpha and C delta in mouse keratinocytes. *J Biol Chem.* 1994 Nov 4;269(44):27159-62.
3. Middleton JP, et al. Heterogeneity of protein kinase C-mediated rapid regulation of Na/K-ATPase in kidney epithelial cells. *J Biol Chem.* 1993 Jul 25;268(21):15958-64.

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Tel:781-999-4286

E-mail:[info@targetmol.com](mailto:info@targetmol.com)

Address:36 Washington Street,Wellesley Hills,MA 02481