

Product Data Sheet

Product Name: Phorbol 12,13-dibutyrate

Cat. No.: GC17352

Chemical Properties

Cas. No. 37558-16-0

Chemical Name (1aR,1bS,4aR,7aS,7bS,8R,9R,9aS)-4a,7b-dihydroxy-3-(hydroxymethyl)-1,1,6,8-tetramethyl-5-oxo-1a,1b,4,4a,5,7a,7b,8,9,9a-decahydro-1H-cyclopropa[3,4]benzo[1,2-e]azulene-9,9a-diyl dibutyrate

SMILES O[C@@]1([C@H](C=C(C)C2=O)[C@]32O)[C@@H](C=C(CO)C3)[C@H](C4(C)C)[C@]4([C@@H]([C@H]1C)OC(CCC)=O)OC(CCC)=O

Formula C₂₈H₄₀O₈

M.Wt 504.61

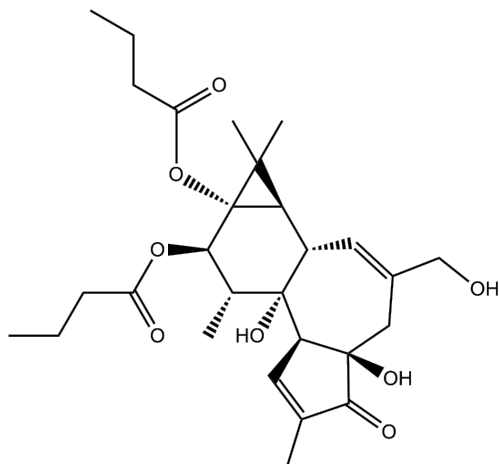
Solubility <25.23mg/ml in DMSO

Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available size: ship with RT, or blue ice upon request.

Structure



Background

Phorbol 12,13-dibutyrate (Phorbol dibutyrate) is a PKC activator and a potent skin tumor promoter [1] [2].

Caution: Product has not been fully validated for medical applications. For research use only.

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Phorbol 12,13-dibutyrate (Phorbol dibutyrate) (1 MM) activates PKC and inhibited Na/K-ATPase transport activity in OK cells[3].

References:

- [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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