Phorbol 12,13-dibutyrate

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Cat. No.:	HY-18985			
CAS No.:	37558-16-0			
Molecular Formula:	C ₂₈ H ₄₀ O ₈			
Molecular Weight:	504.61			
Target:	РКС			
Pathway:	Epigenetics; TGF-beta/Smad			
Storage:	Powder	-20°C	3 years	
		4°C	2 years	
	In solvent	-80°C	1 year	
		-20°C	6 months	

SOLVENT & SOLUBILITY

In Vitro	0,	DMSO : ≥ 125 mg/mL (247.72 mM) * "≥" means soluble, but saturation unknown.						
	Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg			
		1 mM	1.9817 mL	9.9086 mL	19.8173 mL			
		5 mM	0.3963 mL	1.9817 mL	3.9635 mL			
		10 mM	0.1982 mL	0.9909 mL	1.9817 mL			
	Please refer to the solubility information to select the appropriate solvent.							
In Vivo		1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.08 mg/mL (4.12 mM); Clear solution						
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (4.12 mM); Clear solution							
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (4.12 mM); Clear solution							

BIOLOGICAL ACTIV	ТТҮ
Description	Phorbol 12,13-dibutyrate (Phorbol dibutyrate) is a PKC activator and a potent skin tumor promoter ^{[1][2]} .
IC ₅₀ & Target	PKC ^[1]
In Vitro	Phorbol 12,13-dibutyrate (Phorbol dibutyrate) (1 MM) activates PKC and inhibited Na/K-ATPase transport activity in OK cells ^[3] .

Product Data Sheet

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CUSTOMER VALIDATION

- Front Cell Dev Biol. 13 May 2021.
- Aging. 2020 Nov 16;12(22):23017-23028.

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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.

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

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