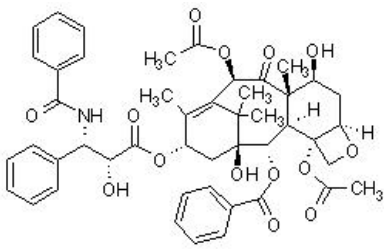
abcam

Product datasheet

Paclitaxel, Anticancer agent ab120143

★★★★★ 1 Abreviews 14 References 2 图像

概述

产品名称	Paclitaxel, Anticancer agent
描述	Anticancer agent
CAS编号	33069-62-4
化学结构	

性能

化学名称	5ß,20-Epoxy-1,2a,4,7ß,10ß,13a-hexahydroxytax-11-en-9-one 4,10-diacetate 2-benzoate 13-ester with (2*R*,3*S*)-*N*-benzoyl-3-phenylisoserine
分子量	853.91
分子式	$C_{47}H_{51}NO_{14}$
PubChem识别号	36314
存放说明	Store at -20°C. Store under desiccating conditions. The product can be stored for up to 12 months.
溶解度概述	Soluble in DMSO to 100 mM and in ethanol to 25 mM
处理	Wherever possible, you should prepare and use solutions on the same day. However, if you need to make up stock solutions in advance, we recommend that you store the solution as aliquots in tightly sealed vials at -20°C. Generally, these will be useable for up to one month. Before use, and prior to opening the vial we recommend that you allow your product to equilibrate to room temperature for at least 1 hour. Refer to SDS for further information. Note: Some researchers have found solubility issues in PBS. The recommended procedure (from researcher feedback) for successful solubilisation is as follows: Solubilise 10 mg of ab120143 in 1.25 mL ethanol absolute, mix well, add 1.25mL Cremophor, homogenise. Store at -20°C and after 24 h, defreeze quickly and solubilise in PBS, no crystallisation observed. Please note,

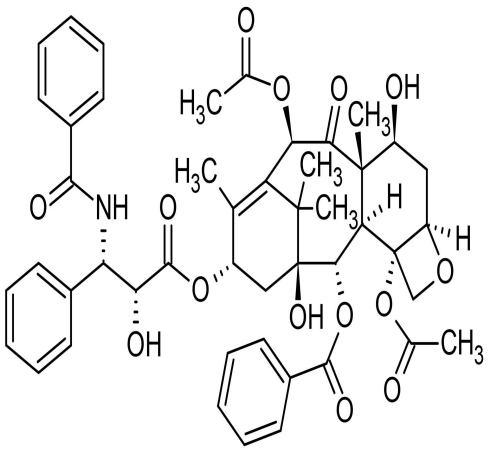
Abcam has not yet tested this method.

Need more advice on solubility, usage and handling? Please visit our **frequently asked questions (FAQ) page** for more details.

SMILES O=C(N[C@@H](c1ccccc1)[C@@H](O)C(=O)O[C@H]5C[C@@]6(O)[C@@H](OC(=O)c2ccccc2)[C@H]3[C@@](C)([C@@H](O)C[C@H]4OC[C@@]34OC(C)=O)C(=O)[C@H](OC(C)=O)C(=C5C)C6(C)C)c7ccccc7

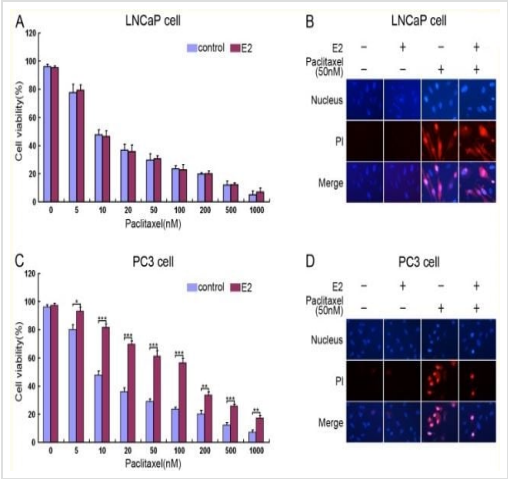
来源 Synthetic

图片



Chemical Structure - Paclitaxel, Anticancer agent (ab120143)

2D chemical structure image of ab120143, Paclitaxel, Anticancer agent



Functional Studies - Paclitaxel, Anticancer agent (ab120143)

Dong et al PLoS One. 2013; 8(12): e83519.
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E2 inhibits Paclitaxel induced androgen-independent prostate cancer cell death.

(A-D) 100 nM of E2 was added to the media of (A and B) LNCaP and (C and D) PC3 cells for 96h, followed by addition of **Paclitaxel** at the indicated concentrations for 24h. The cells were stained with Hoechst 33258 (5 µg/ml) to visualize nuclei and propidium iodide (PI) (0.2 µg/ml) to detect membrane damage (B and D). Cell death was quantified by scoring the number of PI positive cells relative to the total number cell nuclei in the same visual field (A and C). The values represent the mean ± S.E. of at least three independent experiments. * denotes p<0.05, ** denotes p<0.01, and *** denotes p<0.001.

E2 = 17-β-estradiol

(From Figure 1 of Dong et al).

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES, NOT FOR USE IN HUMANS"

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