

Cantharidin, Protein phosphatases 1 and 2A (PP1, PP2A) inhibitor ab120967

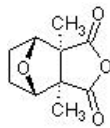
[2 References](#) [2 图像](#)

概述

产品名称	Cantharidin, 蛋白phosphatases 1 and 2A (PP1, PP2A)抑制剂
描述	蛋白phosphatases 1 and 2A (PP1, PP2A)抑制剂
生物学描述	Protein phosphatases 1 and 2A (PP1, PP2A) inhibitor (K_i values are 1.1 and 0.19 μM , respectively). Toxin found in <i>Mylabris phalerata</i> . Possesses various biological activities including anticancer, antitumor activity.

CAS编号 56-25-7

化学结构



性能

化学名称	<i>rel</i> -(3a <i>R</i> ,4 <i>S</i> ,7 <i>R</i> ,7a <i>S</i>)-Hexahydro-3a,7a-dimethyl-4,7-epoxyisobenzofuran-1,3-dione
分子量	196.20
分子式	$\text{C}_{10}\text{H}_{12}\text{O}_4$
PubChem识别号	5944
存放说明	Store at +4°C. The product can be stored for up to 12 months.
溶解度概述	Soluble in DMSO to 100 mM
处理	<p>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.</p> <p>Toxic, refer to SDS for further information.</p> <p>Need more advice on solubility, usage and handling? Please visit our frequently asked questions (FAQ) page for more details.</p>

SMILES CC12C3CCC(C1(C(=O)OC2=O)C)O3

应用

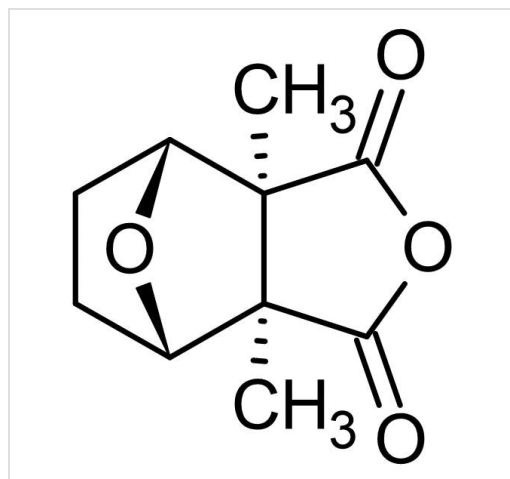
The Abpromise guarantee

Abpromise™承诺保证使用ab120967于以下的经测试应用

“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

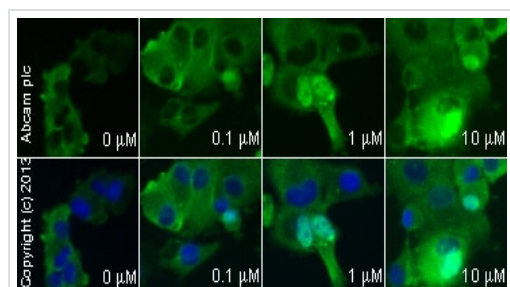
应用	Ab评论	说明
Functional Studies		Use at an assay dependent concentration.

图片



Chemical Structure - Cantharidin, Protein phosphatases 1 and 2A (PP1, PP2A) inhibitor (ab120967)

2D chemical structure image of ab120967, Cantharidin, Protein phosphatases 1 and 2A (PP1, PP2A) inhibitor



Functional Studies - Cantharidin, Protein phosphatases 1 and 2A (PP1, PP2A) inhibitor (ab120967)

ab7960 staining p21 in PANC-1 cells treated with cantharidin (ab120967), by ICC/IF. Increase of p21 expression correlates with increased concentration of cantharidin, as described in literature. The cells were incubated at 37°C for 6h in media containing different concentrations of ab120967 (cantharidin) in DMSO, fixed with 4% formaldehyde for 10 minutes at room temperature and blocked with PBS containing 10% goat serum, 0.3 M glycine, 1% BSA and 0.1% tween for 2h at room temperature. Staining of the treated cells with **ab7960** (5 μg/ml) was performed overnight at 4°C in PBS containing 1% BSA and 0.1% tween. A DyLight 488 anti-rabbit polyclonal antibody (**ab96899**) at 1/250 dilution was used as the secondary antibody. Nuclei were counterstained with DAPI and are shown in blue.

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