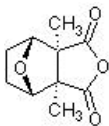


Product datasheet

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

[2 References](#) [2 Images](#)

Overview

Product name	Cantharidin, Protein phosphatases 1 and 2A (PP1, PP2A) inhibitor
Description	Protein phosphatases 1 and 2A (PP1, PP2A) inhibitor
Biological description	Protein phosphatases 1 and 2A (PP1, PP2A) inhibitor (K _i values are 1.1 and 0.19 μM, respectively). Toxin found in <i>Myiobris phalerata</i> . Possesses various biological activities including anticancer, antitumor activity.
CAS Number	56-25-7
Chemical structure	

Properties

Chemical name	<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-epoxysobenzofuran-1,3-dione
Molecular weight	196.20
Molecular formula	C ₁₀ H ₁₂ O ₄
PubChem identifier	5944
Storage instructions	Store at +4°C. The product can be stored for up to 12 months.
Solubility overview	Soluble in DMSO to 100 mM
Handling	<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

Applications

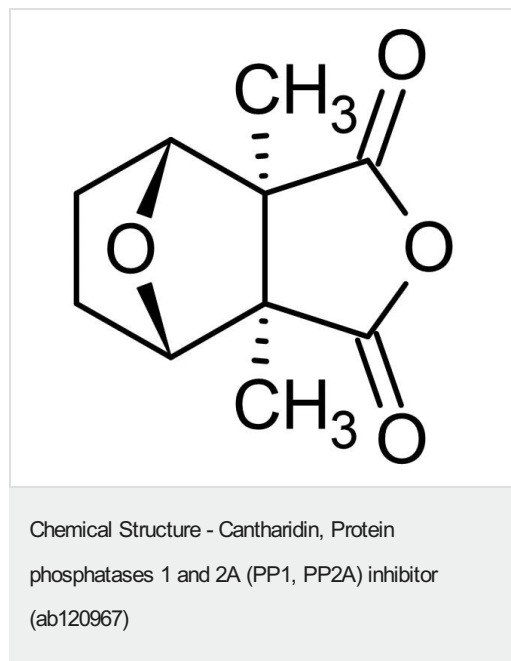
The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab120967 in the following tested applications.

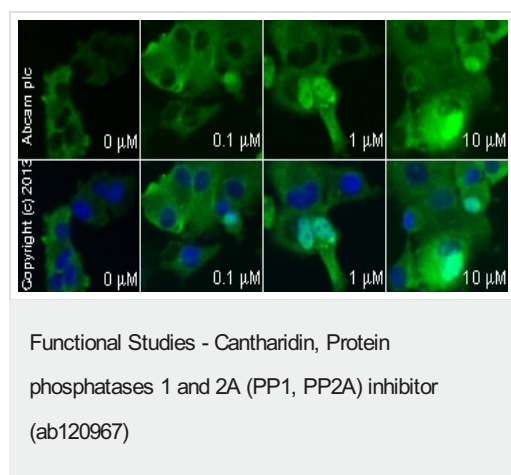
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
Functional Studies		Use at an assay dependent concentration.

Images



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



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.

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

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