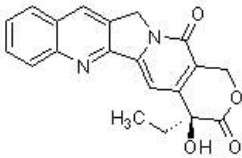


Camptothecin, DNA topoisomerase inhibitor ab120115

2 References **4 图像**

概述

产品名称	Camptothecin, DNA topoisomerase抑制剂
描述	DNA topoisomerase抑制剂
生物学描述	Cell-permeable DNA topoisomerase inhibitor. Potent antitumour and antibiotic agent.
CAS编号	7689-03-4
化学结构	

性能

化学名称	(S)-4-Ethyl-4-hydroxy-1 <i>H</i> -pyrano-[3'4':6,7] indolizino[1,2- <i>b</i>]quinoline-3,14(4 <i>H</i> ,12 <i>H</i>)-dione
分子量	348.35
分子式	C ₂₀ H ₁₆ N ₂ O ₄
PubChem识别号	24360
存放说明	Store at +4°C. Store under desiccating conditions. The product can be stored for up to 12 months.
溶解度概述	Soluble in DMSO to 5 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	<chem>CC[C@]1(O)C=2C=C3c4nc5ccccc5cc4CN3C(=O)C=2COC1=O</chem>
来源	Synthetic

应用

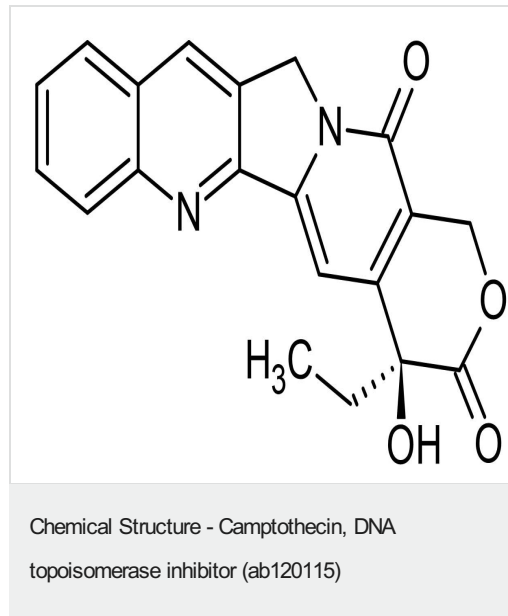
The Abpromise guarantee

Abpromise™ 承诺保证使用ab120115于以下的经测试应用

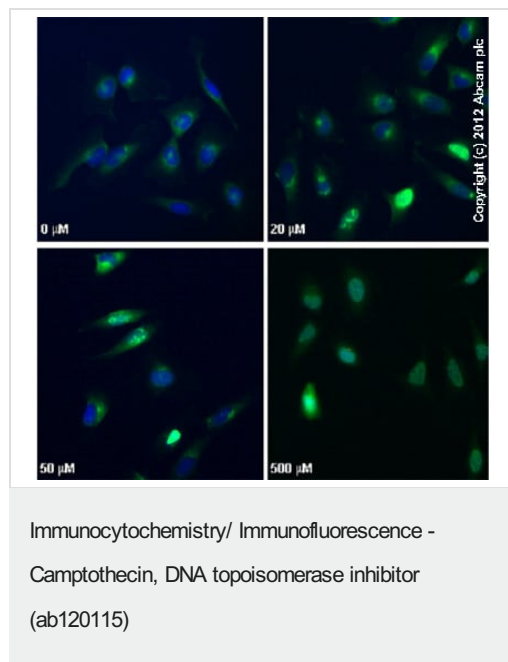
“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

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

图片

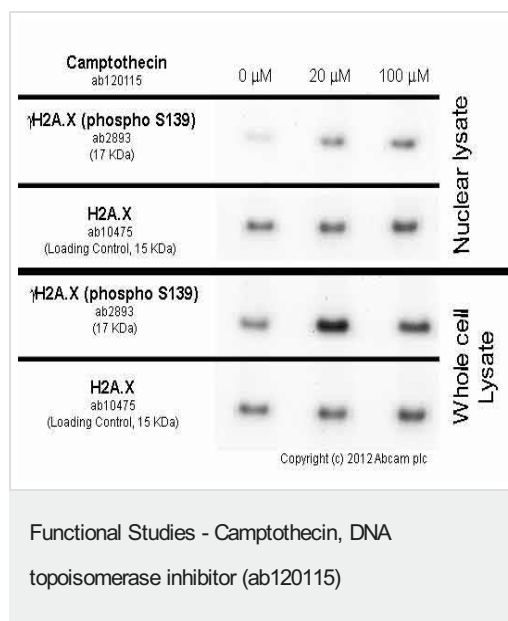


2D chemical structure image of ab120115, Camptothecin, DNA topoisomerase inhibitor



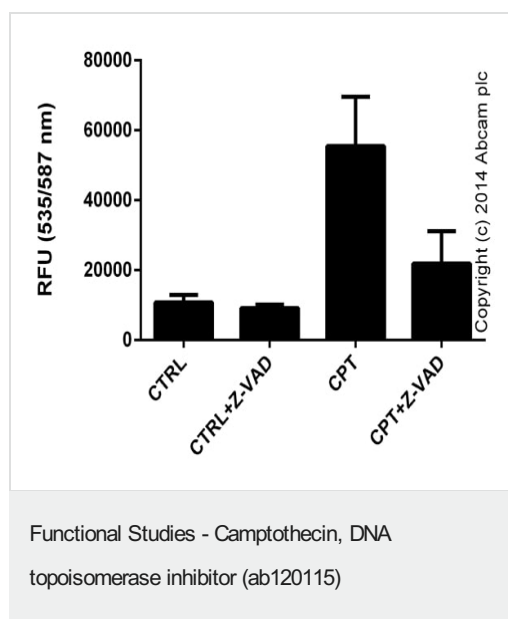
ab2893 staining γH2AX (phospho S139) in HeLa cells treated with camptothecin (ab120115), by ICC/IF. Increased nuclear expression of γH2AX (phospho S139) correlates with increased concentration of camptothecin, as described in literature.

The cells were incubated at 37°C for 3h in media containing different concentrations of ab120115 (camptothecin) 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 **ab2893** (10 μg/ml) was performed overnight at 4°C in PBS containing 1% BSA and 0.1% tween. A DyLight 488 goat 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.



HeLa cells were incubated at 37°C for 3h with vehicle control (0 μM) and different concentrations of camptothecin (ab120115). Decreased expression of γH2A.X (phospho S139) in HeLa cells correlates with an increase camptothecin concentration, as described in literature.

Whole cell lysates were prepared with RIPA buffer (containing protease inhibitors and sodium orthovanadate), 20 μg of each were loaded on the gel and the WB was run under reducing conditions. After transfer the membrane was blocked for an hour using 5% BSA before being incubated with **ab2893** at 1 μg/ml and **ab10475** at 1 μg/ml overnight at 4°C. Antibody binding was detected using an anti-rabbit antibody conjugated to HRP (**ab97051**) at 1/10000 dilution and visualised using ECL development solution.



Functional assays: Caspase 3 (active) Red Staining Kit (**ab65617**)

Caspase 3 activity in Jurkat cells (3 x10e5 cells) following 24 hour exposure to 2 uM Camptothecin (ab120115) with or without 50 μM caspase inhibitor Z-VAD(OMe)-FMK (**ab120487**). Background signal subtracted, duplicates; +/- SD.

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