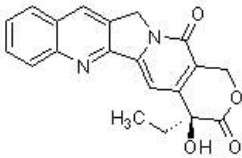


Camptothecin, DNA topoisomerase inhibitor ab120115

2 References [画像数 4](#)

製品の概要

製品名	Camptothecin, DNA topoisomerase inhibitor
製品の詳細	DNA topoisomerase inhibitor
生理活性の詳細	Cell-permeable DNA topoisomerase inhibitor. Potent antitumour and antibiotic agent.
CAS 番号	7689-03-4
構造式	

製品の特性

体系名	(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 登録番号	24360
保存方法	Store at +4°C. Store under desiccating conditions. The product can be stored for up to 12 months.
溶解性	Soluble in DMSO to 5 mM
使用に関する注意	<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 線形表記	<chem>CC[C@]1(O)C=2C=C3c4nc5ccccc5cc4CN3C(=O)C=2COC1=O</chem>
由来	Synthetic

アプリケーション

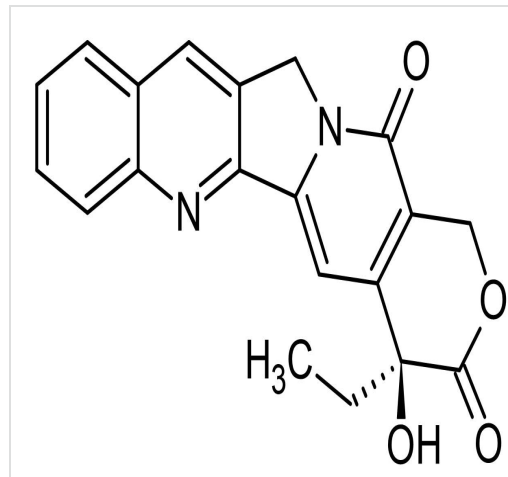
The Abpromise guarantee

Abpromise保証は、次のテスト済みアプリケーションにおけるab120115の使用に適用されます

アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

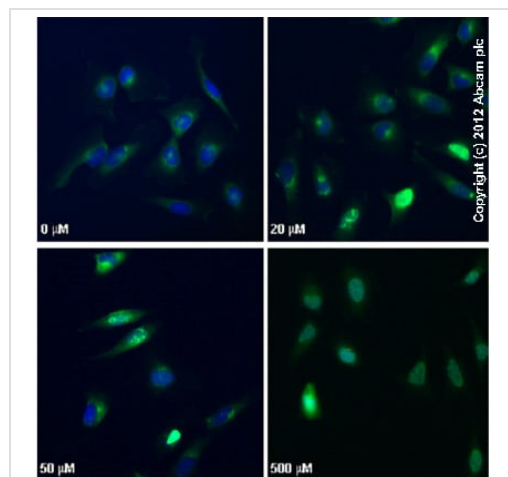
アプリケーション	Abreviews	特記事項
Functional Studies		Use at an assay dependent concentration.

画像



Chemical Structure - Camptothecin, DNA topoisomerase inhibitor (ab120115)

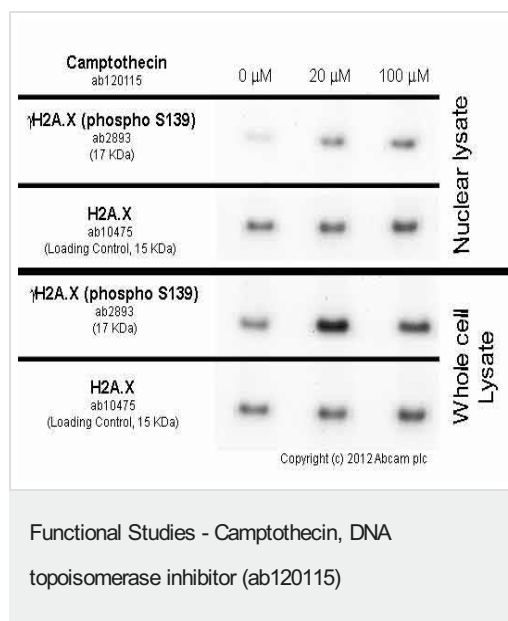
2D chemical structure image of ab120115, Camptothecin, DNA topoisomerase inhibitor



Immunocytochemistry/ Immunofluorescence - Camptothecin, DNA topoisomerase inhibitor (ab120115)

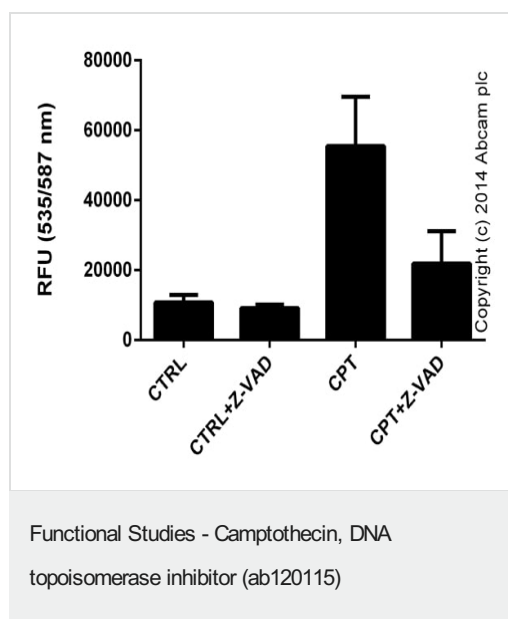
ab2893 staining γH2AX (phospho S139) in HeLa cells treated with camptothecin (ab120115), by ICC/IF. Increased nuclear expression of γH2AX (phospho S139) correlates with increased concentration of camptothecin, as described in literature.

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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