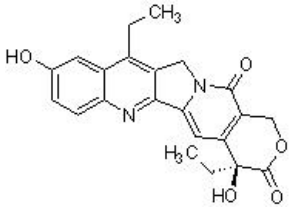
abcam

Product datasheet

SN 38, DNA topoisomerase I inhibitor ab141108

4 References 2 图像

概述

产品名称	SN 38, DNA topoisomerase I抑制剂
描述	DNA topoisomerase I抑制剂. Active metabolite of CPT-11.
生物学描述	Active metabolite of CPT-11 (Irinotecan) (**ab141107**). Inhibits DNA topoisomerase I (IC_{50} values are 0.74 and 1.9 µM in P388 and Ehrlich cells respectively) and DNA and RNA synthesis (IC_{50} values are 77 nM and 1.3 µM respectively). Shows potent antitumor activity, causes S- and G_2 cell cycle arrest and induces apoptosis. Active *in vivo*.
纯度	> 99%
CAS编号	86639-52-3
化学结构	

性能

化学名称	(4*S*)-4,11-Diethyl-4,9-dihydroxy-1*H*-pyrano[3',4':6,7]indolizino[1,2-*b*]quinoline-3,14(4*H*,12*H*)-dione
分子量	392.41
分子式	$C_{22}H_{20}N_2O_5$
PubChem识别号	104842
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
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. Toxic, refer to SDS for further information.

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

SMILES	CC[C@]1(O)C=2C=C3c4nc5ccc(O)cc5c(CC)c4CN3C(=O)C=2COC1=O
来源	Synthetic

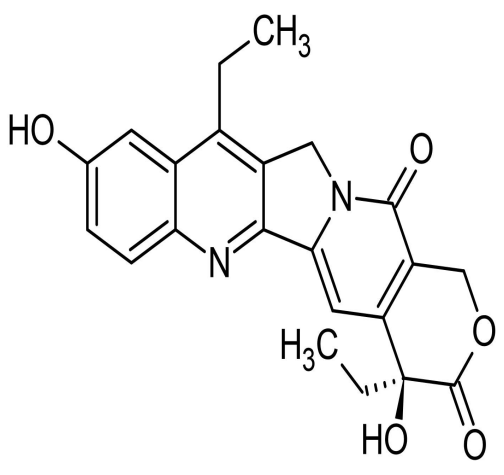
应用

The Abpromise guarantee **Abpromise™承诺保证使用**ab141108**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。

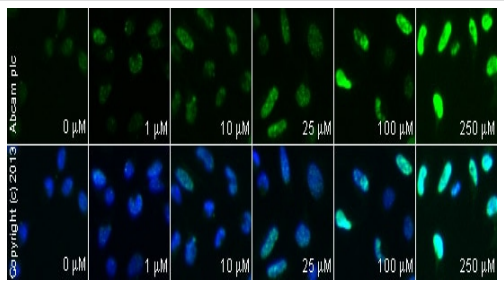
应用	Ab评论	说明
Functional Studies		Use at an assay dependent concentration.

图片



Chemical Structure - SN 38, DNA topoisomerase I inhibitor (ab141108)

2D chemical structure image of ab141108, SN 38, DNA topoisomerase I inhibitor



Immunocytochemistry/ Immunofluorescence - SN 38, DNA topoisomerase I inhibitor (ab141108)

ab2893 staining γH2A.X in HeLa cells treated with SN 38 (ab141108), by ICC/IF. Increase of γH2A.X nuclear expression correlates with increased concentration of SN 38, as described in literature.

The cells were incubated at 37°C for 6 hours in media containing different concentrations of ab141108 (SN 38) in DMSO, fixed with 100% methanol for 5 minutes at -20°C 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** (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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