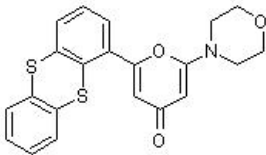


KU-55933, competitive ATM kinase inhibitor ab120637

24 References **2 图像**

概述

产品名称	KU-55933, competitive ATM kinase抑制剂
描述	Potent, selective, competitive ATM kinase抑制剂
生物学描述	Potent, selective and competitive ATM kinase inhibitor. IC ₅₀ values are 12.9 (ATM), 2000 (DNA-PK), 9300 (mTOR), 16600 (PI3K), >100000 (ATR) and >100000 nM (PI4K). Sensitizes cells to ionizing radiation and chemotherapeutics. Blocks Akt phosphorylation, induces G1 cell cycle arrest and induces apoptosis in breast and prostate cell lines.
纯度	> 99%
CAS编号	587871-26-9
化学结构	

性能

化学名称	2-(4-Morpholinyl)-6-(1-thianthrenyl)-4H-pyran-4-one
分子量	395.49
分子式	C ₂₁ H ₁₇ NO ₃ S ₂
PubChem识别号	5278396
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 and in ethanol to 50 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>Need more advice on solubility, usage and handling? Please visit our frequently asked questions (FAQ) page for more details.</p>

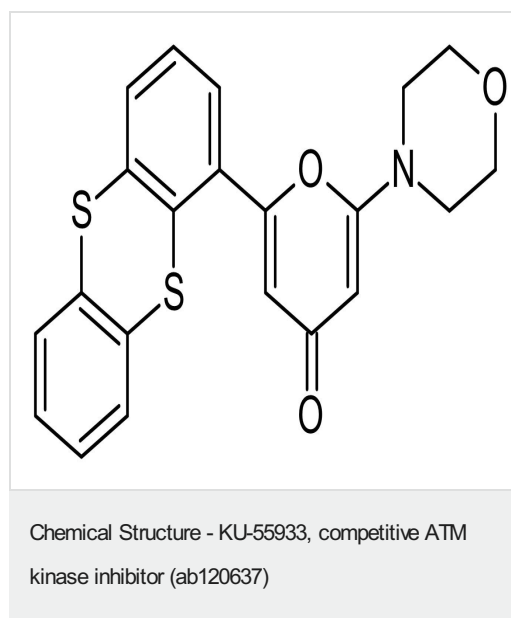
SMILES
C1COCCN1C2=CC(=O)C=C(O2)C3=C4C(=CC=C3)SC5=CC=CC=C5S4
来源

Synthetic

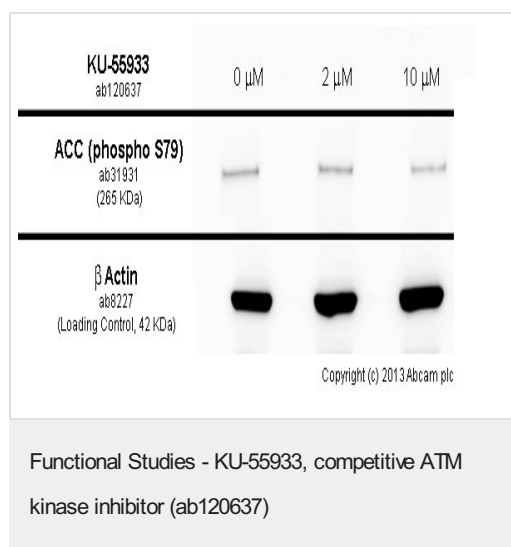
应用**The Abpromise guarantee****Abpromise™** 承诺保证使用 ab120637 于以下的经测试应用

“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 ab120637, KU-55933, competitive ATM kinase inhibitor



HepG2 cells were incubated at 37°C for 60 minutes with vehicle control (0 μM) and different concentrations of KU-55933 (ab120637). Decreased expression of Acetyl Coenzyme A Carboxylase (phospho S79) (**ab31931**) in HepG2 cells correlates with an increase in KU-55933 concentration, as described in literature.

Whole cell lysates were prepared with RIPA buffer (containing protease inhibitors and sodium orthovanadate), 10 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 **ab31931** at 1 μg /ml and **ab8227** 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.

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