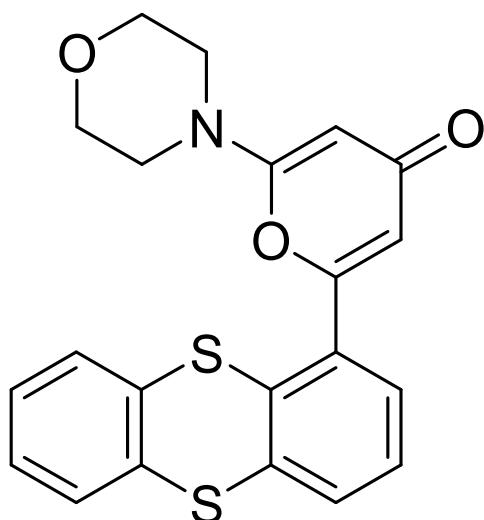


KU55933

SYN-1051



2-morpholino-6-(thianthren-1-yl)-4H-pyran-4-one

CAS Registry No.: 587871-26-9

Smiles String:

c1ccc2c(c1)Sc3ccccc(c3S2)c4cc(=O)cc(o4)N5CCOCC5

Molecular Weight: 395.49

Molecular Formula: C₂₁H₁₇NO₃S₂

Lot Number: Refer to vial

¹H-NMR: Available on request

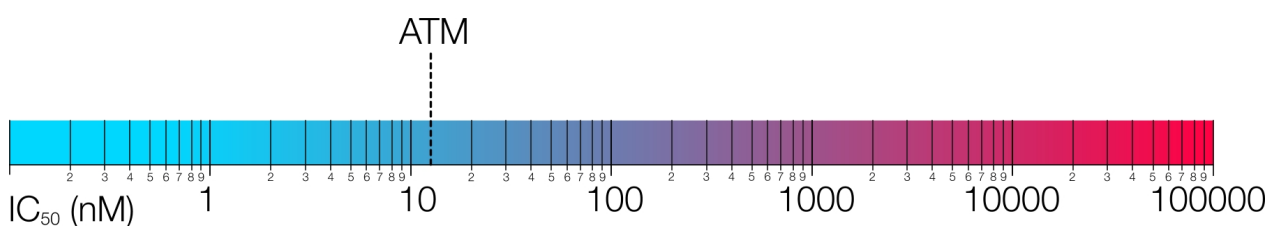
HPLC (Purity): > 95.0% @ 254 nm

ES-MS: Available on request

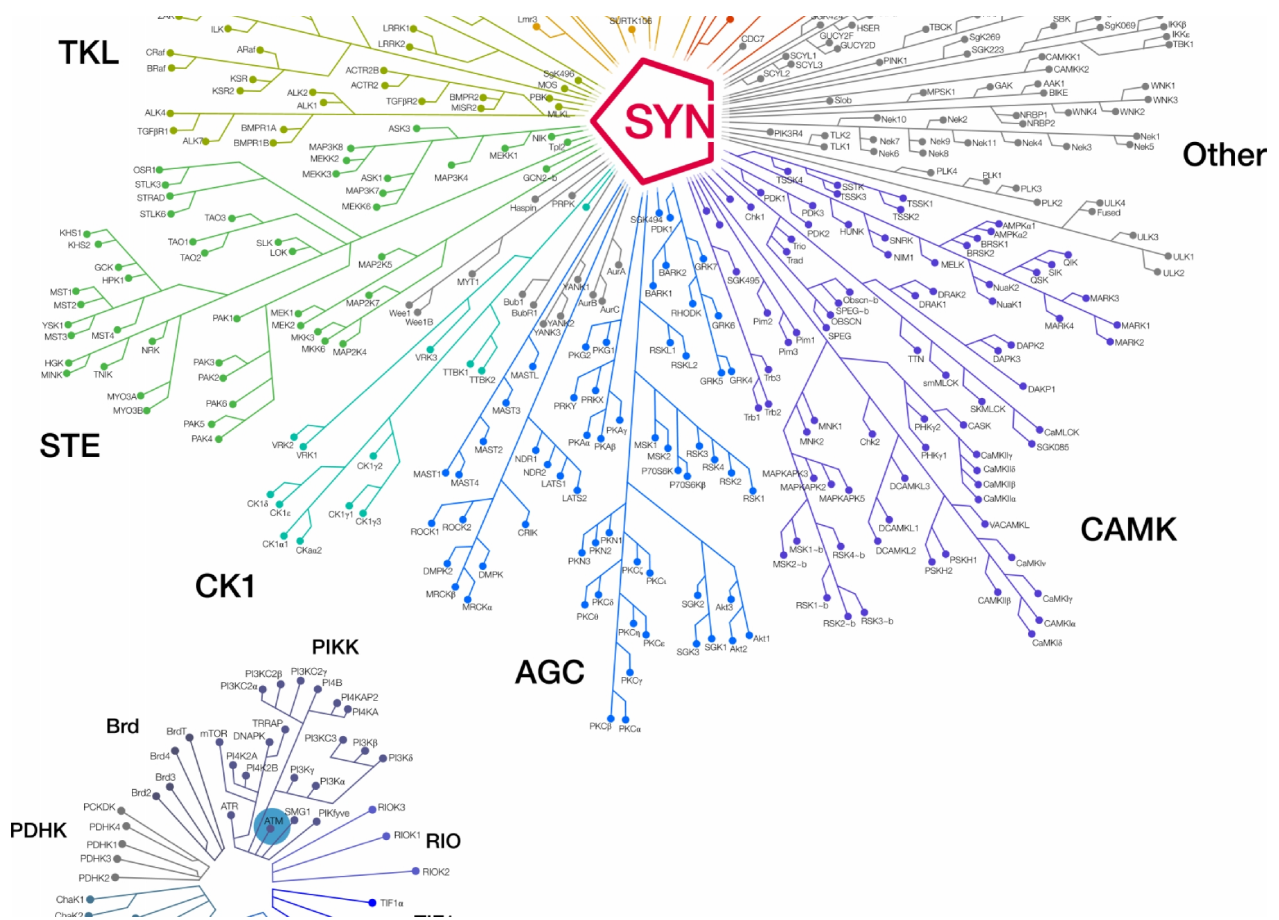
Description:

KU55933 is a potent and selective ATP-competitive inhibitor of ATM, with an IC₅₀ of 13 nmol/L and a K_i of 2.2 nmol/L. KU55933 has potential for use as a new radio- and chemo-sensitizing agent for the treatment of cancer.

Biological Activity



Kinome Mapping



Shipping and Storage Temperature

Shipping:

Ambient

Storage:

2 years -20C, Powder 1 month, -4C in DMSO, More than one month -80C in DMSO

Solubility

DMSO 50 mg/mL, Ethanol <13 mg/mL

Preparing Stock Solutions

Stock Solution (1ml DMSO)	1mM	10mM	20mM	50mM
Mass(mg)	0.3955	3.9550	7.9100	19.7750

References

1. Hickson I , Zhao Y, Richardson CJ, Green SJ, Martin NM, Orr AI, Reaper PM, Jackson SP, Curtin NJ, Smith GC . Identification and characterization of a novel and specific inhibitor of the ataxia-telangiectasia mutated kinase ATM. *Cancer Res.* 2004 Dec 15;64(24):9152-9.
2. Eaton JS, Lin ZP, Sartorelli AC, Bonawitz ND, Shadel GS . Ataxia-telangiectasia mutated kinase regulates ribonucleotide reductase and mitochondrial homeostasis. *J Clin Invest.* 2007 Sep;117(9):2723-34.
3. Crescenzi E, Palumbo G, de Boer J, Brady HJ . Ataxia telangiectasia mutated and p21CIP1 modulate cell survival of drug-induced senescent tumor cells: implications for chemotherapy. *Clin Cancer Res.* 2008 Mar 15;14(6):1877-87. doi: 10.1158/1078-0432.CCR-07-4298.

Ordering Information

To order more of this or any other SYNkinase compound, go to synkinase.com, Call us Toll Free (US Only) at 1- 877-854-6273 or email orders@synkinase.com.

Product Datasheet (Rev. 1.1)