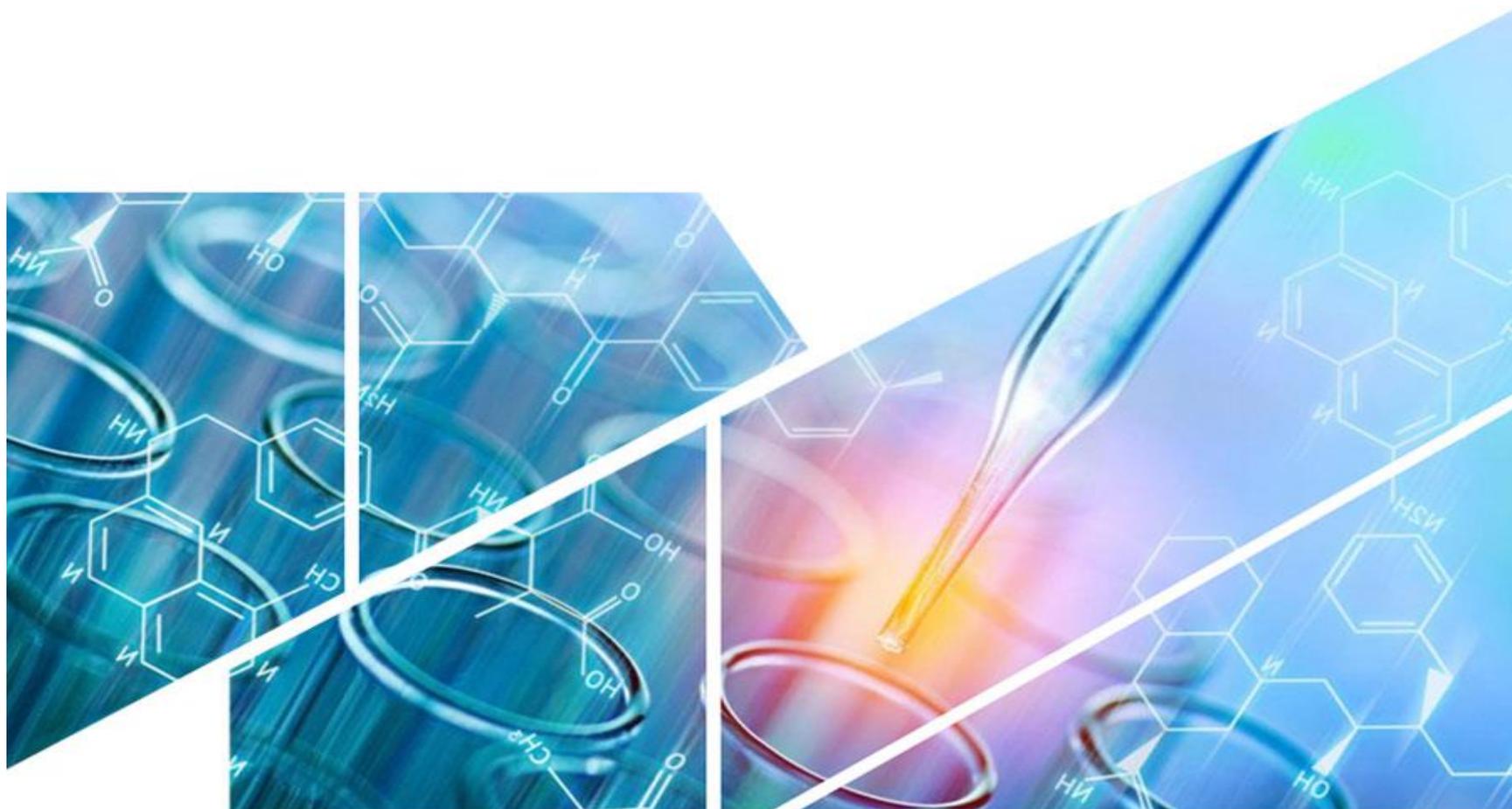


ATM (Ataxia-telangiectasia Mutated) Inhibitors (inhibitors, agonists and modulators)



The protein kinase ataxia-telangiectasia mutated (ATM) is best known for its role as an apical activator of the DNA damage response in the face of DNA double-strand breaks (DSBs). Following induction of DSBs, ATM mobilizes one of the most extensive signalling networks that responds to specific stimuli and modifies directly or indirectly a broad range of targets.



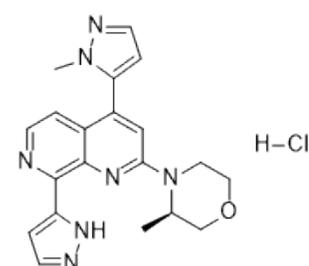
BAY-1895344 hydrochloride

Catalog Number:

Molecular Weight: 411.89

Molecular Formula: C₂₀H₂₂ClN₇O

Description: BAY-1895344 is a potent, orally available and highly selective ATR inhibitor (IC₅₀= 7 nM), which potently inhibits proliferation of a broad spectrum of human tumor cell lines (median IC₅₀ = 78 nM). In cellular mechanistic assays BAY 1895344 potently inhibited hydroxyurea-induced H2AX phosphorylation (IC₅₀ = 36 nM).



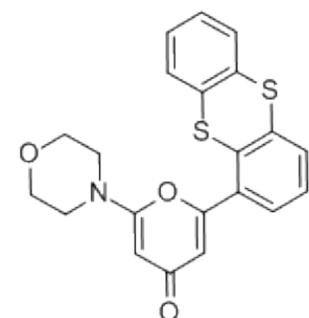
KU-55933 - CAS 587871-26-9

Catalog Number: 587871-26-9

Molecular Weight: 395.49

Molecular Formula: C₂₁H₁₇NO₃S₂

Description: KU-55933 is an ATM inhibitor, which blocks the phosphorylation of Akt induced by insulin and insulin-like growth factor I in cancer cells that exhibit abnormal Akt activity. Moreover, KU-55933 inhibits cancer cell proliferation by inducing G (1) cell cycle arrest.



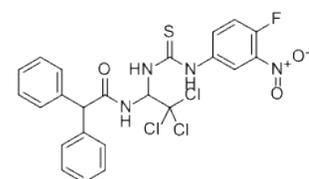
CGK733 - CAS 905973-89-9

Catalog Number:905973-89-9

Molecular Weight: 555.84

Molecular Formula: C₂₃H₁₈Cl₃FN₄O₃S

Description: CGK733, a thiourea-containing compound, was originally identified as a specific inhibitor of ATR and ATM kinases (IC₅₀ = ~ 200 nM). In prematurely senescent breast, lung, and colon cancer cells CGK733 reportedly suppresses ATM-mediated p21 expression required for survival, resulting in cell death.



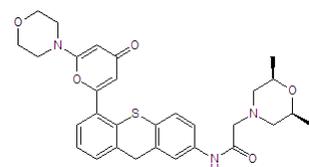
KU-60019 - CAS 925701-46-8

Catalog Number: 925701-46-8

Molecular Weight: 547.67

Molecular Formula: C₃₀H₃₃N₃O₅S

Description: KU-60019 is a potent and reversible inhibitor of ATM kinase with IC₅₀ of 6.3 nM. It is an improved analogue of KU-55933. It exhibits little to no nonspecific target effects against a panel of 229 protein kinases and displays similar target selectivity to KU 55933. It blocks the phosphorylation of ATM substrate proteins.



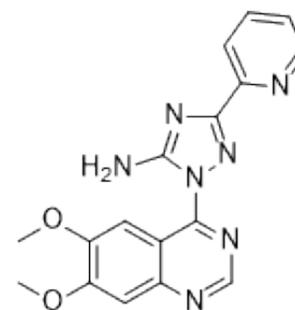
CP-466722 - CAS 1080622-86-1

Catalog Number: 1080622-86-1

Molecular Weight: 349.35

Molecular Formula: C₁₇H₁₅N₇O₂

Description: CP-466722 is a potent and reversible ATM inhibitor, does not affect ATR and inhibits PI3K or PIKK family members in cells.



Wortmannin - CAS 19545-26-7

Catalog Number: 19545-26-7

Molecular Weight: 428.43

Molecular Formula: C₂₃H₂₄O₈

Description: Wortmannin, a steroid metabolite of the fungi *Penicillium funiculosum*, *Talaromyces* (*Penicillium*) *wortmannii*, is a specific, covalent inhibitor of phosphoinositide 3-kinases (PI3Ks) and Polo-Like kinase 1 (PLK1). Wortmannin has also been reported to inhibit members of the polo-like kinase family with IC₅₀ in the same range as for PI3K.

