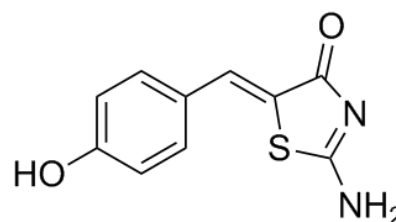


Product Name : (Z)-Mirin
Cat. No. : PC-45763
CAS No. : 1198097-97-0
Molecular Formula : C₁₀H₈N₂O₂S
Molecular Weight : 220.2477
Target : DNA Repair Protein
Solubility : DMSO: ≥ 31 mg/mL



Biological Activity

(Z)-Mirin is a small molecule inhibitor of **MRN (Mre11-Rad50-Nbs1) pathway** that inhibits Mre11-associated exonuclease activity.

(Z)-Mirin prevents MRN-dependent activation of ATM (IC₅₀=12 uM) without affecting ATM protein kinase activity.

(Z)-Mirin inhibits Mre11 nuclease activity at 100 uM, does not inhibit ExoIII nuclease activity.

(Z)-Mirin inhibits the G2 checkpoint, and blocks homology-directed repair (HDR) in mammalian cells.

References

Dupré A, et al. *Nat Chem Biol*. 2008 Feb;4(2):119-25.

Lee JH, et al. *J Biol Chem*. 2013 May 3;288(18):12840-51.

Rozier L, et al. *Mol Cell*. 2013 Mar 28;49(6):1097-107.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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