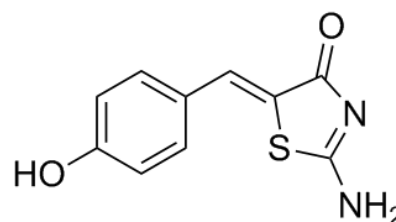


**Product Name** : Mirin  
**Cat. No.** : PC-45763  
**CAS No.** : 1198097-97-0  
**Molecular Formula** : C<sub>10</sub>H<sub>8</sub>N<sub>2</sub>O<sub>2</sub>S  
**Molecular Weight** : 220.2477  
**Target** : Other Targets  
**Solubility** : DMSO: ≥ 31 mg/mL



## 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 (IC<sub>50</sub>=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!**

E-mail: tech@probechem.com