



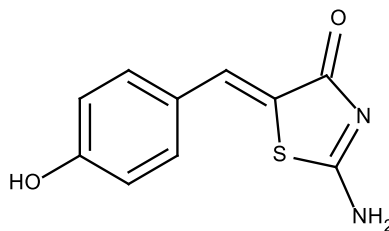
**Catalog # 10-1069**

**Mirin**

CAS# 299953-00-7

5-(4-Hydroxybenzylidene)-2-imino-1,3-thiazolidin-4-one

Lot # X101432



Mirin is an inhibitor of the Mre11-Rad50-Nbs1(MRN) complex ( $IC_{50} = 12 \mu M$  for inhibition of ATM activity), part of the MRN-ATM(ataxia-telangiectasia mutated) pathway, an essential pathway for sensing and signaling from DNA double-strand breaks. Mirin abolishes the G2/M checkpoint and homology-dependent repair in mammalian cells.

- 1) Dupre *et al.* (2008), *A forward chemical genetic screen reveals an inhibitor of the Mre11-Rad50-Nbs1 complex*; Nat.Chem.Biol., **4** 119.

**PHYSICAL DATA**

Molecular Weight:	220.25
Molecular Formula:	C <sub>10</sub> H <sub>8</sub> N <sub>2</sub> O <sub>2</sub> S
Purity:	>98% by TLC
	NMR: Conforms
Solubility:	DMSO (up to 20 mg/ml)
Physical Description:	Tan solid
Storage and Stability:	Store as supplied at -20°C for up to 2 years from the date of purchase. Protect from exposure to moisture. Solutions in DMSO may be stored at -20°C for up to 3 months.

**Materials provided by Focus Biomolecules are for laboratory research use only and are not intended for human or veterinary applications.**

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