# Mirin

## MRN inhibitor

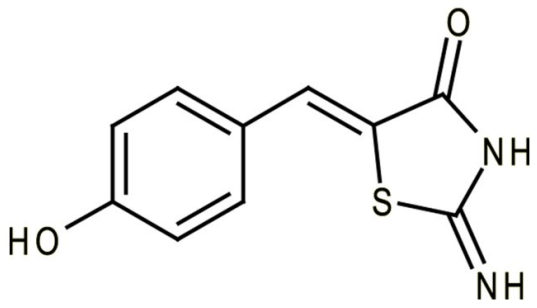
The MRN-ATM pathway is essential for sensing the signaling from DNA double-strand breaks. Mirin is an inhibitor of MRN discovered using a forward chemical genetic screen. It prevents MRN-dependent activation of ATM without affecting ATM protein kinase activity and it inhibits Mre11-associated exonuclease activity. $IC_{50}$=66μM. It abolishes the G2/M checkpoint and homology-dependent repair in mammalian cells.

**Citations:** 3 View Online »

## Ordering Information Order Online »

| | |
|---|---|
| **BML-GR357-0005** | 5mg |

## Manuals, SDS & CofA View Online »


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## Handling & Storage

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|---|---|
| **Use/Stability** | As indicated on product label or CoA when stored as recommended. |
| **Long Term Storage** | -20°C |
| **Shipping** | Blue Ice |

## Regulatory Status

RUO - Research Use Only

## Product Details

| | |
|---|---|
| **Alternative Name** | Z-5-(4-Hydroxybenzylidene)-2-imino-1,3-thiazolidin-4-one |
| **Appearance** | Yellow solid. |
| **CAS** | 299953-00-7 |
| **Couple Target** | MRN |
| **Couple Type** | Inhibitor |
| **Formula** | $C_{10}H_8N_2O_2S$ |
| **MW** | 220.3 |
| **Purity** | ≥95% (TLC) |
| **Solubility** | Soluble in DMSO (25mg/ml) or DMF (25mg/ml). |
| **Source** | Synthetic. |

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