

# RI-1

**Catalog No: tcsc0726**



## Available Sizes

**Size:** 5mg

**Size:** 10mg

**Size:** 50mg



## Specifications

**CAS No:**

415713-60-9

**Formula:**

$C_{14}H_{11}Cl_3N_2O_3$

**Pathway:**

Cell Cycle/DNA Damage

**Target:**

RAD51

**Purity / Grade:**

>98%

**Solubility:**

10 mM in DMSO

**Observed Molecular Weight:**

361.61

## Product Description

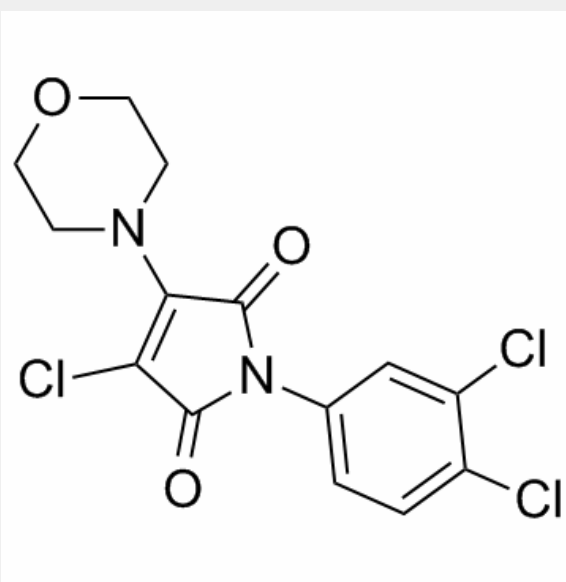
RI-1 is a RAD51 inhibitor with IC50 ranging from 5 to 30  $\mu$ M.

IC50 Value: 5-30  $\mu$ M

Target: RAD51

in vitro: RI-1 sensitizes cells to DNA damage by directly and specifically disrupting HsRAD51 and inhibiting the ability of RAD51 to form filaments on ssDNA. In addition, RI-1 alone generates single-agent toxicity in all three cancer cell lines (HeLa, MCF-7 and U2OS) with LD50 values in the 20–40  $\mu$ M range. RI-1 decreases the rejoining of  $\gamma$ -H2AX foci in G2 phase cells and results in a higher level of unrepaired DSBs 6 hours after irradiation.

in vivo:



All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!