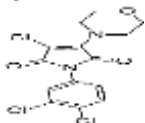


PRODUCT: RI-1**ALTERNATE NAME:** 3-Chloro-1-(3,4-dichlorophenyl)-4-(4-morpholinyl)-1*H*-pyrrole-2,5-dione**CATALOG NUMBER:** B1823-5,25**AMOUNT:** 5 mg, 25 mg**STRUCTURE:****MOLECULAR FORMULA:** C₁₄H₁₁Cl₃N₂O₃**MOLECULAR WEIGHT:** 361.61**CAS NUMBER:** 415713-60-9**APPEARANCE:** Yellow solid**SOLUBILITY:** DMSO (>30 mg/ml)**PURITY:** ≥98% by TLC**STORAGE:** Store at -20 °C. Protect from air and light

DESCRIPTION: RI-1 is a potent and selective inhibitor of RAD51 (IC₅₀ = 5-30 μM). It specifically reduces gene conversion in human cells and stimulates single strand annealing. It covalently binds to Cys319 on the surface of RAD51 and disrupts protein-protein interaction. It potentiates the effect of DNA-damaging agents on tumor cells and is a novel tool for studying DNA repair in cells. Potentiates the killing of glioblastoma cells by ionizing radiation and alkylating drugs.

REFERENCES: Budke, B., *et al.* (2012). *Nucleic Acids Res.* **40**, 7347-7357.**HANDLING:** Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.**RELATED PRODUCTS:**Amuvatinib (**9458**)Mirin (**B1075**)RS-1 (**B1118**)**USAGE:** **FOR RESEARCH USE ONLY! Not to be used in humans**