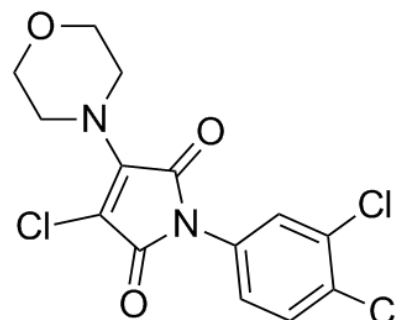


Product Name : RI-1
Cat. No. : PC-44335
CAS No. : 415713-60-9
Molecular Formula : C₁₄H₁₁Cl₃N₂O₃
Molecular Weight : 361.6077
Target : RAD51
Solubility : 10 mM in DMSO



Biological Activity

RI-1 (RAD51 Inhibitor 1) is a cell-permeable **RAD51** inhibitor with IC₅₀ of 5-30 μM range.

RI-1 binds covalently to the surface of RAD51 protein at cysteine 319 that serves as an interface between protein subunits in RAD51 filaments.

RI-1 specifically inhibits homologous recombination (HR) efficiency and sensitizes human cancer cells to mitomycin C.

RI-1 clearly enhances the effect of lomustine (CCNU) on tumor growth in a glioma xenograft model.

References

Budke B, et al. *Nucleic Acids Res.* 2012 Aug;40(15):7347-57.

Berte N, et al. *Mol Cancer Ther.* 2016 Nov;15(11):2665-2678.

Budke B, et al. *J Med Chem.* 2013 Jan 10;56(1):254-63.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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