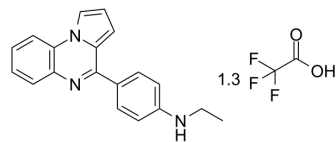


RI(dl)-2 TFA

Cat. No.:	HY-126972A
Molecular Formula:	C ₁₉ H ₁₇ N ₃ (1.3)C ₂ HF ₃ O ₂
Molecular Weight:	435.59
Target:	RAD51
Pathway:	Cell Cycle/DNA Damage
Storage:	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



BIOLOGICAL ACTIVITY

Description	RI(dl)-2 TFA is a potent and selective RAD51-mediated D-loop formation inhibitor with an IC ₅₀ of 11.1 μM. RI(dl)-2 TFA does not influence RAD51 binding to ssDNA and inhibits homologous recombination (HR) activity in human cells (IC ₅₀ of 3.0 μM) ^[1] .
IC₅₀ & Target	IC ₅₀ : 11.1 μM (RAD51-mediated D-loop formation) ^[1]
In Vitro	RI(dl)-2 stabilizes nucleoprotein filaments in a nonfunctional state, which are incapable of D-loop activity and simultaneously shielded from related (e.g., RAD52-mediated) pathways that promote single-strand annealing (SSA) ^[1] . RI(dl)-2 does not modulate the affinity of RAD51 to ssDNA or the stability of preformed RAD51-ssDNA complexes when challenged with high concentrations of salt ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Wei Lv, et al. Development of Small Molecules that Specifically Inhibit the D-loop Activity of RAD51. J Med Chem. 2016 May 26;59(10):4511-25.

Caution: Product has not been fully validated for medical applications. For research use only.

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