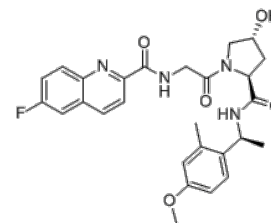


Product Name : CAM833
Cat. No. : PC-38266
CAS No. : 2758364-02-0
Molecular Formula : C₂₇H₂₉FN₄O₅
Molecular Weight : 508.55
Target : RAD51
Solubility : 10 mM in DMSO



Biological Activity

CAM833 (CAM-833) is a potent, specific chemical inhibitor of the **RAD51-BRCA2** interaction and RAD51 oligomerization with K_d of 366 nM.

CAM833 inhibited RAD51 foci formation 6 h after exposure to 3 Gy IR, in a concentration-dependent manner with an IC₅₀ of 6 μM, caused a concentration-dependent decrease in RAD51 foci accompanied by increased DNA damage in A549 cells.

CAM833 inhibited RAD51 molecular clustering at DNA damage sites visualized by SMLM, suppressed homologous recombination and potentiated cell-cycle arrest.

CAM833 potentiated the growth suppressive effect of PARP1 inhibition in BRCA2 wild-type cells, as well as dose-dependent growth inhibition when combined with ionizing radiation.

References

Duncan E Scott, et al. *Cell Chem Biol.* 2021 Jun 17;28(6):835-847.e5.

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

E-mail: tech@probechem.com