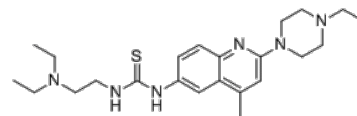


**Product Name** : D-I03  
**Cat. No.** : PC-61928  
**CAS No.** : 688342-78-1  
**Molecular Formula** : C<sub>23</sub>H<sub>36</sub>N<sub>6</sub>S  
**Molecular Weight** : 428.643  
**Target** : DNA Repair Protein  
**Solubility** : 10 mM in DMSO



## Biological Activity

D-I03 (D-103) is a small molecule that inhibits **RAD52-mediated ssDNA annealing** with IC<sub>50</sub> of 5 μM, binds to RAD52 with K<sub>d</sub> of 25.8 μM and inhibits D-loop formation with IC<sub>50</sub> of 8 μM in vitro.

D-I03 suppresses growth of BRCA1- and BRCA2-deficient cells (at 2.5 μM concentration) and inhibits RAD52-mediated SSA in human U2OS cells.

D-I03 selective toward SSA over homologous recombination (HR).

## References

Huang F, et al. *Nucleic Acids Res.* 2016 May 19;44(9):4189-99.

Hengel SR, et al. *Cell Chem Biol.* 2017 Sep 21;24(9):1101-1119.

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

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