

Product Name : D-I03

Synonyms : D103

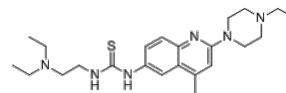
Cat No. : M15629

CAS Number : 688342-78-1

Molecular Formula : C₂₃H₃₆N₆S

Formula Weight : 428.64

Chemical Name : 1-(2-(diethylamino)ethyl)-3-(2-(4-ethylpiperazin-1-yl)-4-methylquinolin-6-yl)thiourea



Description : D-I03 (D-103) is a small molecule that inhibits RAD52-mediated ssDNA annealing with IC₅₀ of 5 μM, binds to RAD52 with K_d of 25.8 μM and inhibits D-loop formation with IC₅₀ of 8 μM in vitro; suppresses growth of BRCA1- and BRCA2-deficient cells (at 2.5 μM concentration) and inhibits RAD52-mediated SSA in human U2OS cells; selective toward SSA over homologous recombination (HR).

Pathway : Cell Cycle/DNA Damage

Target : DNA Repair Protein

Receptor : DNA Repair Protein

Solubility : —

SMILES : CCN1CCN(CC1)C2=NC3=C(C=C(C=C3)NC(=S)NCCN(CC)CC)C(=C2)C

Storage : (-20°C)

Stability : ≥ 2 years

Reference :

1. Huang F, et al. Nucleic Acids Res. 2016 May 19;44(9):4189-99. | 2. Hengel SR, et al. Cell Chem Biol. 2017 Sep 21;24(9):1101-1119.