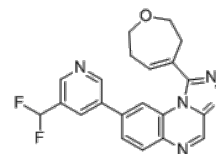


Product Name : BAY-8400
Cat. No. : PC-72056
CAS No. : 2763602-59-9
Molecular Formula : C₂₁H₁₇F₂N₅O
Molecular Weight : 393.398
Target : DNA-PK
Solubility : 10 mM in DMSO



Biological Activity

BAY-8400 (BAY8400) is a highly potent, selective inhibitor of **DNA-PK** with biochemical IC₅₀ of 81 nM, cellular IC₅₀ of 69 nM (γH2AX in HT-144).

BAY-8400 showed good selectivity against PI3K and ATR, ATM and mTOR. In the KINOMEScan panel, >50% inhibition activity of BAY-8400 at 1 μM was measured only for three out of 365 kinases, including DNA-PK.

BAY-8400 demonstrates very potent antiproliferative activity against HT-29 cells in combination with the radiomimetic bleomycin (IC₅₀=358 nM), while its antiproliferative activity in monotherapy was sevenfold lower (IC₅₀=2540 nM).

Combination of PSMA-targeted thorium-227 conjugate BAY 2315497 treatment of human prostate tumor-bearing mice with BAY-8400 oral treatment increased antitumor efficacy,

References

Markus Berger, et al. *J Med Chem*. 2021 Sep 9;64(17):12723-12737.

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

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