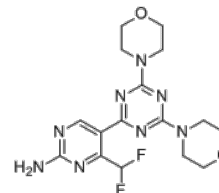


Product Name : PQR514
Cat. No. : PC-73277
CAS No. : 1927857-55-3
Molecular Formula : C₁₆H₂₀F₂N₈O₂
Molecular Weight : 394.387
Target : PI3K
Solubility : 10 mM in DMSO



Biological Activity

PQR514 is a potent selective **pan-PI3K** inhibitor with binding *K_i* of 2.2 and 33 nM for p110 α and mTOR, respectively. PQR514 inhibits phosphorylated S6 ribosomal protein (pS6, Ser235/236) and phosphorylation PKB Ser473 in A2058 cells with IC₅₀ of 17 and 68 nM, respectively.

PQR514 displays negligible interference with protein kinase activities at 10 μ M in a KINOMEScan panel.

PQR514 exhibits growth inhibition in vitro across a panel of 66 tumor cells with GI₅₀ of 0.25 μ M.

PQR514 demonstrates significant antitumor activity against OVCAR-3 human ovarian cancer xenograft model in BALB/c nude mice.

References

Chiara Borsari, et al. *ACS Med Chem Lett*. 2019 Sep 3;10(10):1473-1479.

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

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