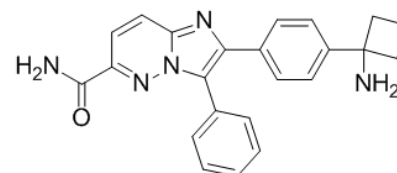


Product Name : BAY-1125976
Cat. No. : PC-42032
CAS No. : 1402608-02-9
Molecular Formula : C₂₃H₂₁N₅O
Molecular Weight : 383.4457
Target : Akt
Solubility : DMSO: 10.33 mg/mL



Biological Activity

BAY-1125976 is a potent and highly selective, allosteric **AKT1/2** inhibitor with IC₅₀ of 5.2/18 nM at 10 μM ATP.

BAY-1125976 binds to active AKT1 with K_d of 2.7 nM and inactive AKT1 with K_d of 1.3 nM.

BAY-1125976 displays >86-fold less potent against AKT3; inhibits the phosphorylation of AKT1 at T308 and S473 (IC₅₀=0.9 and 1.1 nM, respectively), PRAS40 at T246 and 4EBP1 at T70.

BAY-1125976 targets tumors displaying PI3K/AKT/mTOR pathway activation, inhibits cell proliferation in a broad panel of human cancer cell lines, particularly in breast and prostate cancer cell lines expressing estrogen or androgen receptors.

BAY-1125976 exhibits strong in vivo patient-derived xenograft models.

References

Politz O, et al. *Int J Cancer*. 2017 Jan 15;140(2):449-459.

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

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