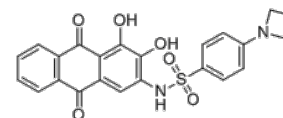


Product Name : HKB99
Cat. No. : PC-72381
CAS No. : 2414908-90-8
Molecular Formula : C₂₃H₁₈N₂O₆S
Molecular Weight : 450.465
Target : Other Targets
Solubility : 10 mM in DMSO



Biological Activity

HKB99 (PGAM1 allosteric inhibitor HKB99) is a novel potent, cellularly active **PGAM1** (Phosphoglycerate mutase 1) allosteric inhibitor, HKB99 is noncompetitive with the substrate 3-PG with IC₅₀ of 0.85 μ M in in vitro enzyme assays. HKB99 significantly inhibited the proliferation of NSCLC cells (PC9, HCC827, H1975, and A549) in a concentration-dependent manner with the IC₅₀ of 17-67 μ M.

HKB99 allosterically block conformational change of PGAM1 during catalytic process and PGAM1-ACTA2 interaction, disrupts cellular migration and induces apoptosis in NSCLC cells.

HKB99 resensitizes the erlotinib-resistant NSCLC cells to erlotinib treatment. HKB99 (100 mg/kg, i.p.) significantly suppresses tumor growth and augments the tumoricidal effect of erlotinib in mouse xenografts

References

Huang K, et al. *Cell Metab.* 2019 Dec 3;30(6):1107-1119.e8.

Liang Q, et al. *Acta Pharmacol Sin.* 2021 Jan;42(1):115-119.

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

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