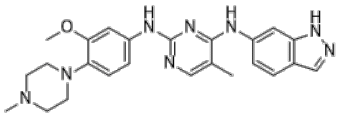
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Data Sheet

Global Supplier of Chemical Probes, Inhibitors & Agonists.

Product Name	:	CYY292
Cat. No.	:	PC-28678
CAS No.	:	2644673-04-9
Molecular Formula	:	$C_{24}H_{28}N_8O$
Molecular Weight	:	444.54
Target	:	FGFR
Solubility	:	10 mM in DMSO



Biological Activity

CYY292 is a potent and selective FGFR1 inhibitor with IC50 of 28, 28, and 78 nM for FGFR1, FGFR2, and FGFR3, does not inhibit FGFR4, alters FGFR1 phosphorylation both exogenously and endogenously through the negative feedback effect of Ser777.
CYY292 degrades phosphorylated FGFR1 with high selectivity without degrading phosphorylated FGFR2 or phosphorylated FGFR3.
CYY292 specifically stabilizes the FGFR1 protein in cells.
CYY292 (2 uM) reduced phosphorylated FGFR1 protein levels in FGFR1-WT cells, but not in FGFR1-S777D mutant cells.
CYY292 reduces GBM cell migration and invasion and suppresses EMT.
CYY292 blocks EMT by inactivating the Akt/GSK3β/Snail pathway.
CYY292 suppresses the stemness of GBM cells.
CYY292 (30 mg/kg, i.p.) inhibits U87MG xenograft tumor growth in vivo.

References

Bi Y, et al. Genes Dis. 2023 Apr 3;11(1):479-494.

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

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