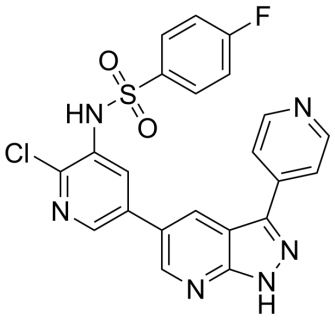
FD274

Cat. No.:	HY-155066
CAS No.:	2641899-38-7
Molecular Formula:	$C_{22}H_{14}ClFN_6O_2S$
Molecular Weight:	480.9
Target:	PI3K; mTOR
Pathway:	PI3K/Akt/mTOR
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	FD274 is a highly potent PI3K/mTOR dual inhibitor with IC_{50}s of 0.65 nM, 1.57 nM, 0.65 nM, 0.42 nM, and 2.03 nM against PI3K α/β/γ/δ and mTOR, respectively. FD274 exhibits significant anti-proliferation of AML cell lines (HL-60 and MOLM-16). FD274 demonstrates dose-dependent inhibition of tumor growth in the HL-60 xenograft model. FD274 has the potential for acute myeloid leukemia research[1].

IC_{50} & Target				
	PI3Kα 0.65 nM (IC_{50})	PI3Kβ 1.57 nM (IC_{50})	PI3Kδ 0.65 nM (IC_{50})	PI3Kγ 0.42 nM (IC_{50})
	mTOR 2.03 nM (IC_{50})			

REFERENCES

[1]. Chengbin Yang, et al. Discovery of N-(2-chloro-5-(3-(pyridin-4-yl)-1H-pyrazolo[3,4-b]pyridin-5-yl)pyridin-3-yl)-4-fluorobenzenesulfonamide (FD274) as a highly potent PI3K/mTOR dual inhibitor for the treatment of acute myeloid leukemia. Eur J Med Chem. 2023 Oct 5;258:115543.

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