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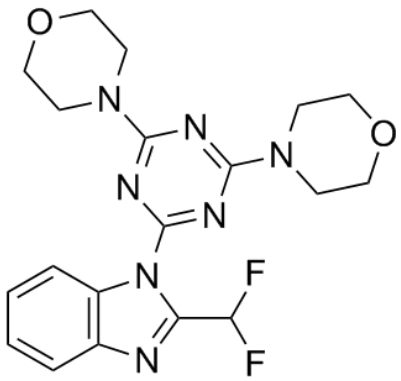
Data Sheet

Global Supplier of Chemical Probes, Inhibitors & Agonists.

Product Name	:	ZSTK474
Cat. No.	:	PC-45869
CAS No.	:	475110-96-4
Molecular Formula	:	$C_{19}H_{21}F_2N_7O_2$
Molecular Weight	:	417.4125
Target	:	PI3K
Solubility	:	10 mM in DMSO



Biological Activity

ZSTK474 (ZSTK-474) is a potent inhibitor of **class I PI3K isoforms** with IC50 of 17 nM, 53 nM, and 6 nM for p110β, p110γ, and p110δ, respectively.
ZSTK474 (ZSTK474) shows potent antiproliferative activity against a panel of 39 human cancer cell lines with mean GI50 of 0.32 uM.
ZSTK474 (ZSTK474) is more effectively than that of LY294002 or wortmannin.
ZSTK474 (ZSTK474) induces apoptosis in OVCAR3 cells, and induces complete G1-phase arrest but not apoptosis in A549 cells at 10 uM.
ZSTK474 (ZSTK474) completely inhibits the growth of A549, PC-3, and WiDr xenografts in mice at 400mg/kg; and induces the regression of A549 xenograft tumors.

References

Yaguchi S, et al. ***J Natl Cancer Inst,*** 2006, 98(8), 545-556.

Kong D, et al. ***Cancer Sci***, 2007, 98(10), 1638-1642.

Kong D, et al. ***Eur J Cancer,*** 2009, 45(5), 857-865.

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