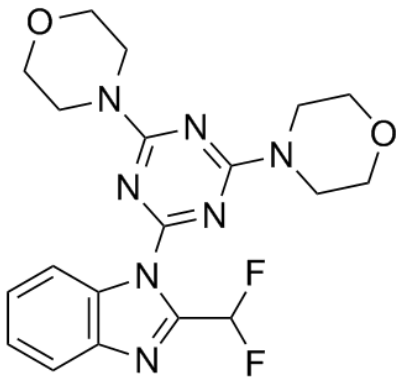
ProbeChem®
Expedite Your Scientific Research

WWW.PROBECHEM.COM

Data Sheet

Global Supplier of Chemical Probes, Inhibitors & Agonists.

Product Name	:	ZSTK-474
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

ZSTK-474 (ZSTK474) 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.
ZSTK-474 (ZSTK474) shows potent antiproliferative activity against a panel of 39 human cancer cell lines with mean GI50 of 0.32 uM.
ZSTK-474 (ZSTK474) is more effectively than that of LY294002 or wortmannin.
ZSTK-474 (ZSTK474) induces apoptosis in OVCAR3 cells, and induces complete G1-phase arrest but not apoptosis in A549 cells at 10 uM.
ZSTK-474 (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.

E-mail: tech@probechem.com