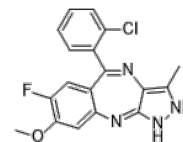


Product Name : R1530
Cat. No. : PC-28544
CAS No. : 882531-87-5
Molecular Formula : C₁₈H₁₄ClFN₄O
Molecular Weight : 356.79
Target : Polo-like Kinase (PLK)
Solubility : 10 mM in DMSO



Biological Activity

R1530 (R-1530) is a highly potent, orally active **mitosis/angiogenesis** inhibitor, inhibits angiogenesis-related receptor tyrosine kinases (**KDR**, **FGFR**) with IC₅₀ of 10 nM and 28 nM, also inhibits **PLK4** with IC₅₀ of 7.06 nM.

R1530 shows much weaker activities against CDK2 and CDK4.

R1530 inhibits the kinase activities of vascular endothelial growth factor receptor 2 (VGF_r2), FGFR1, and PDGFR-β.

R1530 exhibits potent in vitro antiproliferative activity in various human tumor tissues including breast, colon, lung, prostate, melanoma, and oral epidermoid (IC₅₀= 0.2-3.4 μM).

R1530 (25 or 50 mg/kg) produced significant tumor growth inhibition in MDA-MB-435 human tumor xenograft model.

References

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Kolinsky K, et al. *Cancer Chemother Pharmacol.* 2011 Dec;68(6):1585-94.

Tovar C, et al. *Cell Cycle.* 2010 Aug 15;9(16):3364-75.

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

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