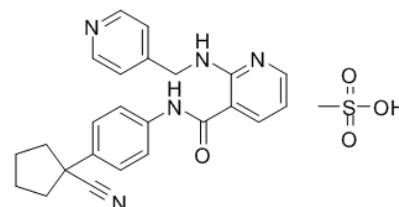


Product Name : Apatinib
Cat. No. : PC-43506
CAS No. : 1218779-75-9
Molecular Formula : C₂₅H₂₇N₅O₄S
Molecular Weight : 493.58
Target : VEGFR
Solubility : DMSO: ≥ 32 mg/mL



Biological Activity

Apatinib (YN968D1) is a multitargeted tyrosine kinase inhibitor (TKI) that inhibits VEGFR-2 (Flk-1/KDR, IC₅₀=1 nM), RET, c-Kit and c-Src (IC₅₀=13, 429 and 530 nM respectively).

Apatinib (YN968D1) significantly increases the accumulation of DOX and Rho 123 in cells overexpressing ABCB1 and ABCG2, inhibits cellular phosphorylation of VEGFR-2, c-kit and PDGFRβ, effectively inhibits proliferation, migration and tube formation of HUVECs induced by FBS, and blocks the budding of rat aortic ring.

Apatinib (YN968D1) effectively inhibits the growth of several human tumor xenograft models with little toxicity alone and in combination with chemotherapeutic agents.

References

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Li J, et al. BMC Cancer. 2010 Oct 5;10:529.

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

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