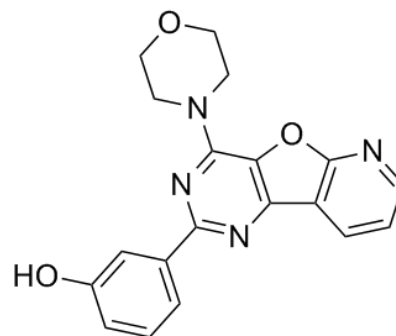


Product Name : PI-103
Cat. No. : PC-42328
CAS No. : 371935-74-9
Molecular Formula : C₁₉H₁₆N₄O₃
Molecular Weight : 348.3553
Target : PI3K
Solubility : 10 mM in DMSO



Biological Activity

PI-103 is a potent, dual class I **PI3K/mTOR** inhibitor with IC₅₀ of 2/3/3/15/ for p110α/β/δ/γ, respectively. PI-103 also inhibits TORC1 (>80% inhibition at 0.5 μM) and DNA-PK (IC₅₀=14 nM), 15- to 20-fold less activity against class II PI3K C2β (IC₅₀=43 nM), >1,300-fold selectivity over the class III PI3K Vsp34. PI-103 potently inhibits proliferation and invasion of a wide variety of human cancer cells in vitro. PI-103 shows activity in cancer xenograft models.

References

- Fan QW, et al. *Cancer Cell*. 2006 May;9(5):341-9.
Raynaud FI, et al. *Cancer Res*. 2007 Jun 15;67(12):5840-50.
Fan QW, et al. *Cancer Res*. 2007 Sep 1;67(17):7960-5.
Kojima K, et al. *Leukemia*. 2008 Sep;22(9):1728-36.

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

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