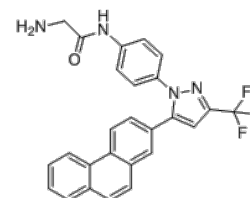


Product Name : PDK1 inhibitor AR12
Cat. No. : PC-60605
CAS No. : 742112-33-0
Molecular Formula : C₂₆H₁₉F₃N₄O
Molecular Weight : 460.46
Target : PDK1
Solubility : 10 mM in DMSO



Biological Activity

OSU-03012 (AR12) is a potent, orally active 3-phosphoinositide-dependent kinase-1 (**PDK-1**) inhibitor with IC₅₀ of 5 μ M. OSU-03012 induces apoptosis in PC-3 cells at low microM range, causes Akt dephosphorylation and inhibition of p70 S6 kinase activity.

OSU-03012 displays cytotoxicity against a panel of 60 cell lines with mean GI₅₀ of 3 μ M.

OSU-03012 decreases incidences of carcinoma and metastasis in transgenic mouse model of prostate cancer.

References

- Johnson AJ, et al. **Blood**. 2005 Mar 15;105(6):2504-9.
Tseng PH, et al. **Blood**. 2005 May 15;105(10):4021-7.
Zhu J, et al. **Cancer Res**. 2004 Jun 15;64(12):4309-18.
Baryawno N, et al. **Cancer Res**. 2010 Jan 1;70(1):266-76.

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

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