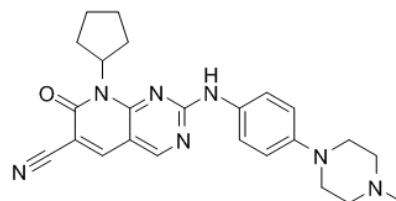


Product Name : ON123300
Cat. No. : PC-43121
CAS No. : 1357470-29-1
Molecular Formula : C₂₄H₂₇N₇O
Molecular Weight : 429.5175
Target : Cyclin-dependent Kinase (CDK)
Solubility : 10 mM in DMSO



Biological Activity

Narazaciclilb (ON123300) is a potent, **multi-targeted kinase** inhibitor with IC₅₀ of 5, 3.9, 26, 26, 9.2 and 11 nM for **ARK5**, CDK4, PDGFRβ, FGFR1, RET and FYN, respectively.

Narazaciclilb (ON123300) inhibits U87 glioma cell proliferation with IC₅₀ 3.4 μM, and reduces phosphorylation of Akt, yet it also unexpectedly induces Erk activation and prevents phosphorylation of C-Raf S259.

Narazaciclilb (ON123300) suppresses phosphorylation of Akt as well as activation of Erk in brain tumors in vivo.

Narazaciclilb (ON123300) also exhibits potent activity against mantle cell lymphomas both in vitro and in vivo, triggers apoptosis and inhibition of the Rb and PI3K/AKT pathways.

References

Zhang X, et al. *Mol Cancer Ther.* 2014 May;13(5):1105-16.

Divakar SK, et al. *Leukemia.* 2016 Jan;30(1):86-93.

Perumal D, et al. *Cancer Res.* 2016 Mar 1;76(5):1225-36.

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

E-mail: tech@probechem.com