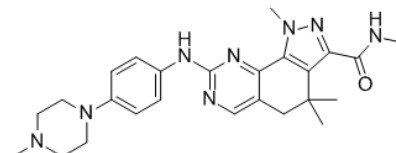


Product Name : PHA-848125
Cat. No. : PC-42578
CAS No. : 802539-81-7
Molecular Formula : C₂₅H₃₂N₈O
Molecular Weight : 460.5746
Target : Cyclin-dependent Kinase (CDK)
Solubility : 10 mM in DMSO



Biological Activity

Milciclib (PHA-848125) is a potent, selective, brain penetrant and orally available dual **CDK** and **TRK** inhibitor with IC₅₀ of 45 and 53 nM for CDK2/cyclin A and TrkA, respectively.

PHA-848125 also is a potent pseudokinase **ULK4** binder with K_i of 4.4 μM.

PHA-848125 shows cross-reactivity with other CDKs (CDK1/4/5/7), TrkB/C, Kit, Abl and PDGFR (IC₅₀s < 1 μM).

PHA-848125 inhibits cell proliferation of a wide panel of tumoral cell lines with submicromolar IC₅₀.

PHA-848125 shows significant antitumor activity in various human xenografts.

References

Brasca MG, et al. *J Med Chem.* 2009 Aug 27;52(16):5152-63.

Degrassi A, et al. *Mol Cancer Ther.* 2010 Mar;9(3):673-81.

Albanese C, et al. *Mol Cancer Ther.* 2010 Aug;9(8):2243-54.

Albanese C, et al. *Br J Pharmacol.* 2013 May;169(1):156-66.

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

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