

Product Name	: PHA-848125
Synonyms	: Milciclib; PHA 848125
Cat No.	: M16004
CAS Number	: 802539-81-7
Molecular Formula	: C ₂₅ H ₃₂ N ₈ O
Formula Weight	: 460.57
Chemical Name	: 1H-Pyrazolo[4,3-h]quinazoline-3-carboxamide, 4,5-dihydro-N,1,4,4-tetramethyl-8-[[4-(4-methyl-1-piperazinyl)phenyl]amino]-
Description	: A potent, selective, brain penetrant and orally available dual CDK and TRK inhibitor with IC ₅₀ of 45 and 53 nM for CDK2/cyclin A and TrkA, respectively; shows cross-reactivity with other CDKs (CDK1/4/5/7), TrkB/C, Kit, Abl and PDGFR (IC ₅₀ s < 1 μM); inhibits cell proliferation of a wide panel of tumoral cell lines with submicromolar IC ₅₀ ; shows significant antitumor activity in various human xenografts. Brain Cancer Phase 2 Clinical
Pathway	: Angiogenesis
Target	: CDK
Receptor	: CDK2/CyclinA; CDK4/CyclinD1; CDK5/p35; CDK7/CyclinH; TrkA
Solubility	: 10 mM in DMSO
SMILES	: <chem>O=C(C1=NN(C)C2=C1C(C)(C)CC3=CN=C(NC4=CC=C(N5CCN(C)CC5)C=C4)N=C23)NC</chem>
Storage	: (-20°C)
Stability	: ≥ 2 years
Reference	:

1. Brasca MG, et al. J Med Chem. 2009 Aug 27;52(16):5152-63. | 2. Degrossi A, et al. Mol Cancer Ther. 2010 Mar;9(3):673-81. | 3. Albanese C, et al. Mol Cancer Ther. 2010 Aug;9(8):2243-54. | 4. Albanese C, et al. Br J Pharmacol. 2013 May;169(1):156-66.