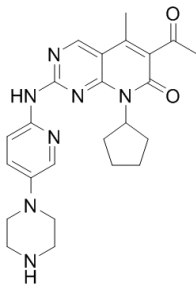


Product Name	: Palbociclib	
Synonyms	: PD0332991;PD-0332991;PD 0332991	
Cat No.	: M15082	
CAS Number	: 571190-30-2	
Molecular Formula	: C ₂₄ H ₂₉ N ₇ O ₂	
Formula Weight	: 447.53	
Chemical Name	: Pyrido[2,3-d]pyrimidin-7(8H)-one, 6-acetyl-8-cyclopentyl-5-methyl-2-[[5-(1-piperazinyl)-2-pyridinyl]amino]-	
Description	: A potent and selective inhibitor of CDK4/6 with IC ₅₀ of 11 nM/16 nM; no inhibition for CDK2A (IC ₅₀ >5 uM); inhibits MDA-MB453 cells with IC ₅₀ of 0.16 uM; shows antiproliferative effect against retinoblastoma (Rb)-positive tumor cells in vitro and reduces the phospho-Ser780/Ser795 on the Rb protein; orally bioavailable. Breast Cancer Approved	
Pathway	: Angiogenesis	
Target	: CDK	
Receptor	: CDK4;CDK6	
Solubility	: DMSO: 0.2 mg/mL (Need ultrasonic or warming)	
SMILES	: <chem>CC(=O)C1=C(C)C2=CN=C(NC3=NC=C(C=C3)N3CCNCC3)N=C2N(C2CCCC2)C1=O</chem>	
Storage	: (-20°C)	
Stability	: ≥ 2 years	
Reference	:	

1. Toogood PL, et al. J Med Chem. 2005 Apr 7;48(7):2388-406. | 2. Fry DW, et al. Mol Cancer Ther. 2004 Nov;3(11):1427-38. | 3. Baughn LB, et al. Cancer Res. 2006 Aug 1;66(15):7661-7.