



Product Information

CDK inhibitor Palbociclib, Purity ≥98%

Cat. No.: X24-05-ZQ767

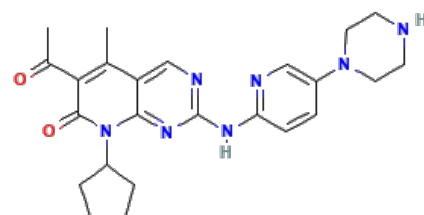
Size: 10 mg; 25 mg; 50 mg

CAS Number: 571190-30-2

Compound CID: 5330286

Synonym: 571190-30-2; PD0332991; PD-0332991; PD 0332991; CDK inhibitor

This product is for research use only and is not intended for diagnostic use.



Product Information

Description	Palbociclib is an CDK kinase inhibitor that disrupts cell division processes. It targets Cdk4/cyclin D1, Cdk4/cyclin D3, Cdk6/cyclin D2, and DYRK1A.
Molecular Weight	447.53
Molecular Formula	C ₂₄ H ₂₉ N ₇ O ₂
Targets	Cdk4/cyclin D1: 11 nM; Cdk4/cyclin D3: 9 nM; Cdk6/cyclin D2: 16 nM; DYRK1A: 2000 nM
IUPAC Name	6-Acetyl-8-cyclopentyl-5-methyl-2-[(5-piperazin-1-yl)pyridin-2-yl]amino]pyrido[2,3-d]pyrimidin-7-one
InChI	InChI=1S/C24H29N7O2/c1-15-19-14-27-24(28-20-8-7-18(13-26-20)30-11-9-25-10-12-30)29-22(19)31(17-5-3-4-6-17)23(33)21(15)16(2)32/h7-8,13-14,17,25H,3-6,9-12H2,1-2H3,(H,26,27,28,29)
InChI Key	AHJRHEGDXXFFMBM-UHFFFAOYSA-N
Canonical SMILES	CC1=C(C(=O)N(C2=NC(=NC=C12)NC3=NC=C(C=C3)N4CCNCC4)C5CCCC5)C(=O)C
Form	Lyophilized powder
Purity	≥98%
Identity	Confirmed by NMR/HPLC/MS.
Stability	The product is stable for three years when stored at the recommended temperature in lyophilized powder.
Applications	Palbociclib (PD 0332991) can be used to study the selective inhibition of CDK4/6 in cancer therapy.
Storage	Store at -20°C.