



Product Information

CDK inhibitor ON123300, Purity $\geq 98\%$

Cat. No.: X24-05-ZQ744

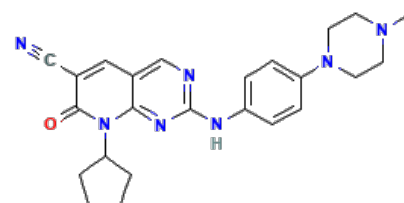
Size: 5 mg; 10 mg; 25 mg

CAS Number: 1357470-29-1

Compound CID: 56649281

Synonym: 1357470-29-1; ON123300; ON 123300; CDK inhibitor

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



Product Information

Description	ON123300, soluble in DMSO and insoluble in ethanol and water, is an CDK kinase inhibitor that disrupts cell division processes. It targets ARK5, Cdk4/cyclin D1, CDK6/cyclinD1, and FGFR1.
Molecular Weight	429.23
Molecular Formula	C ₂₄ H ₂₇ N ₇ O
Targets	ARK5: 5 nM; Cdk4/cyclin D1: 3.9 nM; CDK6/cyclinD1: 9.82 nM; FGFR1: 26 nM
IUPAC Name	8-Cyclopentyl-2-[4-(4-methylpiperazin-1-yl)anilino]-7-oxopyrido[2,3-d]pyrimidine-6-carbonitrile
InChI	InChI=1S/C24H27N7O/c1-29-10-12-30(13-11-29)20-8-6-19(7-9-20)27-24-26-16-18-14-17(15-25)23(32)31(22(18)28-24)21-4-2-3-5-21/h6-9,14,16,21H,2-5,10-13H2,1H3,(H,26,27,28)
InChI Key	VADOZMZXXRBXNY-UHFFFAOYSA-N
Canonical SMILES	CN1CCN(CC1)C2=CC=C(C=C2)NC3=NC=C4C=C(C(=O)N(C4=N3)C5CCCC5)C#N
Form	Lyophilized powder
Purity	$\geq 98\%$
Solubility	DMSO: 26 mg/mL (60.53 mM); Water: Insoluble; Ethanol: Insoluble
Identity	Confirmed by NMR/HPLC/MS.
Stability	The product is stable for three years when stored at the recommended temperature in lyophilized powder.
Applications	ON123300 can be used to study the dual inhibition of CDK4/6 and ARK5 in cancer cells.
Storage	Store at -20°C.