



## Product Information

### CDK inhibitor ON123300, Purity ≥98%

**Cat. No.:** X24-05-ZQ744

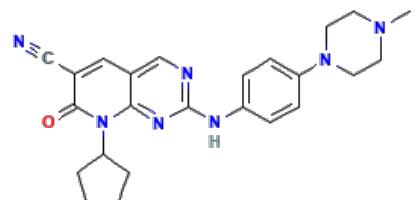
**Size:** 5 mg; 10 mg; 25 mg

**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

<b>Description</b>	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.
<b>Molecular Weight</b>	429.23
<b>Molecular Formula</b>	C <sub>24</sub> H <sub>27</sub> N <sub>7</sub> O
<b>Targets</b>	ARK5: 5 nM; Cdk4/cyclin D1: 3.9 nM; CDK6/cyclinD1: 9.82 nM; FGFR1: 26 nM
<b>IUPAC Name</b>	8-Cyclopentyl-2-[4-(4-methylpiperazin-1-yl)anilino]-7-oxopyrido[2,3-d]pyrimidine-6-carbonitrile
<b>InChI</b>	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)
<b>InChI Key</b>	VADOZMZXXRBXNY-UHFFFAOYSA-N
<b>Canonical SMILES</b>	CN1CCN(CC1)C2=CC=C(C=C2)NC3=NC=C4C=C(C(=O)N(C4=N3)C5CCCC5)C#N
<b>Form</b>	Lyophilized powder
<b>Purity</b>	≥98%
<b>Solubility</b>	DMSO: 26 mg/mL (60.53 mM); Water: Insoluble; Ethanol: Insoluble
<b>Identity</b>	Confirmed by NMR/HPLC/MS.
<b>Stability</b>	The product is stable for three years when stored at the recommended temperature in lyophilized powder.
<b>Applications</b>	ON123300 can be used to study the dual inhibition of CDK4/6 and ARK5 in cancer cells.
<b>Storage</b>	Store at -20°C.