



Product Information

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

Cat. No.: X24-05-ZQ789

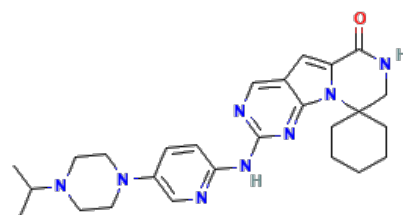
Size: 5 mg; 10 mg; 50 mg; 100 mg

CAS Number: 1628256-23-4

Compound CID: 86269224

Synonym: 1628256-23-4; G1T-38; G1 T38; G1T38; CDK inhibitor

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



Product Information

Description	Lerociclib, soluble in DMSO and insoluble in ethanol and water, is an CDK kinase inhibitor that disrupts cell division processes. It targets CDK1/cyclinB1, cdk2/cyclin A, CDK2/cyclinE, and Cdk4/cyclin D1.
Molecular Weight	474.613
Molecular Formula	C ₂₆ H ₃₄ N ₈ O
Targets	CDK1/cyclinB1: 2.4 μ M; cdk2/cyclin A: 1.5 μ M; CDK2/cyclinE: 3.6 μ M; Cdk4/cyclin D1: 1 nM
IUPAC Name	4-[[5-(4-Propan-2-ylpiperazin-1-yl)pyridin-2-yl]amino]spiro[1,3,5,11-tetrazatricyclo[7.4.0.02,7]trideca-2,4,6,8-tetraene-13,1'-cyclohexane]-10-one
InChI	InChI=1S/C26H34N8O/c1-18(2)32-10-12-33(13-11-32)20-6-7-22(27-16-20)30-25-28-15-19-14-21-24(35)29-17-26(8-4-3-5-9-26)34(21)23(19)31-25/h6-7,14-16,18H,3-5,8-13,17H2,1-2H3,(H,29,35)(H,27,28,30,31)
InChI Key	YPJRHEKCFKOVRT-UHFFFAOYSA-N
Canonical SMILES	CC(C)N1CCN(CC1)C2=CN=C(C=C2)NC3=NC=C4C=C5C(=O)NCC6(N5C4=N3)CCCCC6
Form	Lyophilized powder
Purity	$\geq 98\%$
Solubility	DMSO: 2 mg/mL (4.21 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	Lerociclib can be used to investigate its selective inhibition of CDK4/6 and potential for treating advanced breast cancer.



Storage

Store at -20°C.
